



DIAS

Institiúid Ard-Léinn | Dublin Institute for
Bhaile Átha Cliath | Advanced Studies

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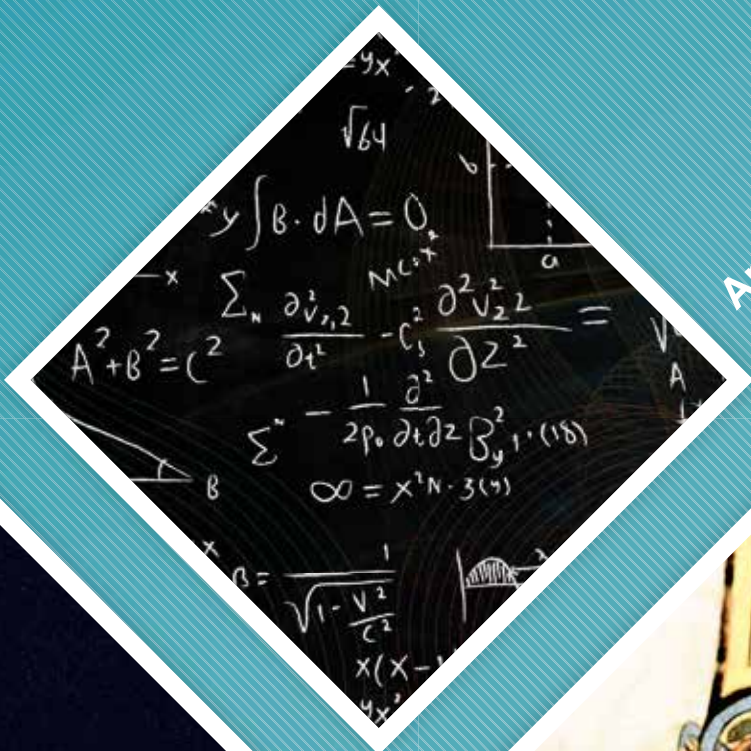


DIAS

Institiúid Ard-Léinn Bhaile Átha Cliath
Dublin Institute for Advanced Studies



1940 - 2015



Annual Report 2015
Tuairisc Bhlíantúil 2015



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Chairman's Statement 2015



The Chairman of Council, Dr. Vincent Cunnane at an event in celebration of the 75th Anniversary of the foundation of DIAS.

Cathaoirleach na Comhairle Dr Vincent Cunnane i láthair ag ócáid ag comóradh 75 bliain ó bunadh na hInstitiúide.

2015 was a special year in DIAS' history as it marked the 75th Anniversary of its foundation. The contribution made by DIAS was acknowledged by the President of Ireland at a reception with staff at Áras an Uachtaráin and we are very grateful to the President for his expression of support. The establishment of DIAS in 1940 was the foundation stone for the development of basic research in Ireland. All members of DIAS, past and present can be proud of the contribution their work has made to advances in society and the part they have played in building the reputation Ireland now has for advanced research. Just as Schrodinger's lecture on "What is Life" in 1943 led to significant discoveries in the area of biology, the advanced studies being undertaken by our researchers today is influencing studies in other spheres of society which undoubtedly will result in ground-breaking work in other disciplines in the future.

As can be seen from the following report, the Schools, despite ongoing resource challenges, through partnerships and collaborations with colleagues in the wider academic community have undertaken a very impressive programme of research. This Report can only give a snapshot of the research work carried out by the Schools during the year. More comprehensive information on the research activities of each of the Schools is available in individual School Research Reports and on their respective websites. The arrival of Professor Chris Bean in the School of Cosmic Physics as Head of the Geophysics section is a very welcome boost for the section. Professor Bean gave some interesting insights into the prediction of earthquake eruptions in his inaugural lecture on 21 October.

Whilst DIAS' research work is well known within the academic community at home and abroad, its work is not as well known to policymakers and the wider public. For the past few years we are actively working to make our research more accessible to the public. During the past year we increased the number of public lectures and organised more public outreach events at Dunsink Observatory as well as other events during science week and Culture Night. A review of communications was also undertaken during the year with the help of an external agency which pinpointed the key areas of communication to be addressed. An internal communications working group was set up to work on this and good progress has already been made in a number of areas such as the redevelopment of the website and development of social media.

During 2015 new Governing Boards were appointed for each of the three Schools for the next five-year term. I would like to welcome the new members appointed to the Boards and also to pay tribute to our outgoing members for their support and commitment over the last five years. DIAS is honoured that scholars of such distinction are willing to give of their time and expertise to serve on our Boards on a pro bono basis. We are particularly indebted to our international members who travel a few times a year to Dublin for meetings and other events. Next year will bring us to the end of our five year strategy and I look forward to working with my colleagues on the development of a new strategy with the opportunities that lie ahead that will further enhance the contribution DIAS makes at a national and international level.

Ráiteas an Chathaoirligh 2015



Members of DIAS and Michael D. Higgins, President of Ireland, at the Áras in December 2015 in celebration of the 75th Anniversary of the foundation of DIAS.

Baill DIAS agus Michael D. Higgins, Uachtarán na hÉireann, ag an Áras Nollaig 2015.

Blain speisialta i stair DIAS ab ea 2015, ó tharla gur comóradh 75 bliana ó bhunú na hinstiúide. Ag fáiltiú leis an bhfoireann ag Áras an Uachtaráin, thug Uachtarán na hÉireann aitheantas dá bhfuil déanta ag DIAS, agus táimid an-bhuíoch don Uachtarán as a léiriú tacaíochta. Le bunú DIAS sa bhliain 1940 leagadh an bhunchloch don fhorbairt ar bhuntaighde in Éirinn. Is féidir le baill uile DIAS, san am atá thart agus faoi láthair, a bheith bródúil as an gcuidiú a thug a saothar do dhul chun cinn sa tsochaí agus as an ról a bhí acu chun an cháil atá ag Éirinn as ard-taighde a thógáil. Faoi mar a bhí léacht Schrodinger ar “Cad is Beatha Ann” sa bhliain 1943 ina chúis le fionnachtana suntasacha i réimse na bitheolaíochta, tá tionchar ag an ard-léann atá ar bun ag ár dtaighdeoirí sa lá atá inniu ann ar staidéar i réimsí eile den tsochaí agus beidh, gan amhras, obair cheannródaíoch i ndisciplíní eile sa todhchaí mar thoradh air.

Mar is féidir a fheiceáil ón tuarascáil seo a leanas, tá clár taighde ar dóigh curtha ar bun ag na Scoileanna, d’ainneoin na ndúshlán acmhainne leanúnach, trí chomhpháirtíochtaí agus comhoibriú le comhghleacaithe sa phobal acadúil níos leithne. Ní féidir leis an Tuarascáil ach roghbhliúire a thabhairt den obair taighde a rinne na Scoileanna i rith na bliana. Tá eolas níos cuimsithí faoi na gníomhaíochtaí taighde ag gach ceann de na Scoileanna ar fáil sna Tuarascálacha Taighde Scoile aonair agus ar a suíomhanna gréasáin faoi seach. Buntáiste don rannóg, a bhfuil an-fháilte roimhe, is ea teacht an Ollaimh Chris Bean chuig Scoil na Fisice Cosmaí mar Cheann ar rannóg na Geoifisice. Thug an tOllamh Bean roinnt léargas an-suimiúil ar an tuar faoi bhrúchtaí crith talún ina léacht tionscnaimh an 21 Deireadh Fómhair.

Cé go bhfuil an-eolas faoi obair taighde DIAS laistigh den phobal acadúil sa bhaile agus thar lear, níl a cuid oibre chomh mór sin ar eolas ag lucht déanta beartais agus an pobal i gcoitinne. Le blianta beaga anuas táimid ag obair go gníomhach chun ár dtaighde a dhéanamh níos inrochtana don phobal. Le linn na bliana seo caite mhéadaíomar ar líon na léachtaí poiblí agus d’eagraíomar níos mó ócáidí for-rochtana poiblí i Réadlann Dhún Sinche chomh maith le hócáidí eile le linn Seachtain na hEolaíochta agus Oíche Chultúir. Rinneadh athbheithniú ar chumarsáid le linn na bliana freisin le cúnamh ó ghníomhaireacht sheachtrach a d’aibhsigh na príomhréimsí cumarsáide a bhfuil aghaidh le tabhairt orthu. Bunaíodh grúpa oibre inmheánach cumarsáide chun obair air seo agus tá dul chun cinn maith déanta cheana féin i roinnt réimsí amhail athfhorbairt ar an suíomh gréasáin agus forbairt ar na meáin shóisialta.

I rith na bliana 2015 ceapadh Boird Stiúrtha nua do gach ceann de na trí Scoil don chéad téarma cúig bliana eile. Ba mhaith liom fáilte a chur roimh na baill nua a ceapadh ar na Boird agus ómós a thabhairt freisin d’ár mbaill atá ag éirí as, as a dtacaíocht agus a dtiomantas le cúig bliana anuas. Is mór an onóir do DIAS go bhfuil scoláirí chomh gradamúil sin sásta a gcuid ama agus saíneolaí a chaitheamh ar ár mBoird ar bhonn pro bono. Táimid faoi chomaoin go háirithe ag ár mbaill idirnáisiúnta a thaistealaíonn go Baile Átha Cliath cúpla uair sa bhliain do chruinnithe agus ócáidí eile. An bhliain seo chugainn, beidh críoch ar ár straitéis cúig bliana agus táim ag tnúth le hobair le mo chomhghleacaithe ar straitéis nua a fhorbairt leis na deiseanna atá romhainn a chuirfidh tuilleadh leis an gcion a dhéanann DIAS ag leibhéal náisiúnta agus idirnáisiúnta.

School of Celtic Studies

RESEARCH

Liam Breatnach completed work on his edition of the Old Irish law tract *Córus Bésgnai*. He continued work on a Grammar of Middle Irish, and worked on preparing a number of papers for publication.

Barry Lewis continued work on his edition of *Bonedd y Saint*.

Aoibheann Nic Dhonnchadha continued research on the composition and contents of the collection of thirty Irish medical manuscripts, dating from the fifteenth and sixteenth centuries, that are housed in the Library of Trinity College, Dublin. Data compiled in previous years was revised and corrected during 2015. Revisions were placed on www.isos.dias.ie.

Brian Ó Curnáin continued work on Modern Irish dialect studies, including the preparation of a monograph on East Galway Irish, and the transcription and editing of recorded materials for the GLÓR project.

Gordon Ó Riain continued work on a new edition of IGT V. This included work on a draft edition of the tract with translation and commentary as well as several studies of various aspects of the tract, one of which is due to appear in *Celtica* 28.

He completed work on an edition with translation, notes and study of a previously unnoticed fragment of a tract on grammar and prosody inserted into UCD-OFM A 4. He also began editing the proceedings of the conference on 'The medieval and early modern Irish grammatical and metrical tradition' held at DIAS on 26 September 2014, and continued work on a catalogue entry for the Yellow Book of Lecan.

Mona Jakob continued her research on Early Irish Metrics.

Síle Ní Mhurchú continued work on an edition of *Agallamh Oisín agus Phádraig* based on RIA A iv 2 and carried out research on the manuscript sources for the *dánta grádh*a.

Mícheál Hoyne continued to carry out work on his research project, a critical edition of the poems of the fifteenth-century poet Seí(th)fin Mór and a study of the type of verse he composed, *brúilingeacht*. The project is proceeding according to plan and should be completed within the three years of the O'Donovan scholarship.

Marie-Luise Theuerkauf began work on her research project on the Dindshenchas in the Yellow Book of Lecan.

IRISH SCRIPT ON SCREEN (ISOS)

The Irish Script on Screen project continued work on digitisation of manuscripts and upgrading the huge database and archive of digitised material held by ISOS. This year six further Royal Irish Academy manuscripts went live on the ISOS



Scholars in the School of Celtic Studies Library.

Lucht léinn san Leabharlann i Scoil an Léinn Cheiltigh.

site (23 A 4, 23 N 16, 23 N 17, 23 N 29, A iv 3 and B iv 2), six National Library of Scotland manuscripts (72.2.1, 72.2.2, 72.2.4, 72.2.6, 72.2.9 and 72.2.15) as well as sixteen manuscripts in the King's Inns Library (MSS 2–8 and 10–18).

OGHAM IN 3D

The National Monuments Service, Dept. of Arts, Heritage and the Gaeltacht, provided a third year of subvention for 2015 in support of the Ogham in 3D project being undertaken by the School of Celtic Studies, in cooperation with the Discovery Programme. In the course of the year the remaining 18 ogham stones in state care were scanned and digitised, completing this phase of the project. The Ogham in 3D website consequently has in excess of 100 records currently available, over a quarter of all known ogham stones.

In addition, a new phase of the project was initiated in July 2015, prompted by recent advances in the capabilities of Photogrammetry/Structure from Motion software to more quickly and accurately produce 3D models from photographs. In this phase we are seeking the help of local communities in the recording of ogham stones using this method. Photogrammetry/Structure from Motion is more cost effective than laser or structured light scanning as it means that anyone with a digital camera, a basic knowledge of photography and basic IT skills can produce a 3D model themselves with a relatively small amount of training. A pilot project has been set up in Corca Dhuibhne (Dingle Peninsula, Co. Kerry), the area with the highest concentration of ogham stones in the country. Over thirty potential participants attended an information session in Ballyferriter in November and most of those signed up for the next step, which will consist of training in the Spring of 2016.

Scoil an Léinn Cheiltigh

TAIGHDE

Chríochnaigh Liam Breatnach a chuid oibre ar a eagrán den téacs dlí Sean-Ghaeilge Córús Bésnai. Lean sé lena chuid oibre ar Ghramadach na Meán-Ghaeilge, agus réitigh sé roinnt páipéar le haghaidh foilsithe.

Lean Barry Lewis ag obair ar eagrán de *Bonedd y Saint* (téacs ginealach ar naoimh na Breataine Bige).

Lean Aoibheann Nic Dhonnchadha le taighde ar chomhdhéanamh agus ar ábhair an bhailiúcháin de thríocha lámhscríbhinn leighis Éireannacha, ón cúigiú agus séú haois déag, atá i Leabharlann Choláiste na Tríonóide, Baile Átha Cliath. Rinneadh athchóiriú agus ceartú ar ábhar a cuireadh le chéile le blianta anuas i gcaitheamh 2015, agus cuireadh torthaí na hoibre ar www.isos.dias.ie.

Lean Brian Ó Curnáin ag obair ar staidéir ar chanúintí na Nua-Ghaeilge, lena n-áirítear monagraf ar Ghaeilge Oirthear na Gaillimhe, agus tras-scríobh agus eagarthóireacht ar ábhair thaifeadta do thionscadal GLÓR.

Lean Gordon Ó Riain le hobair ar eagrán nua de *Irish Grammatical Tracts V*, lena n-áirítear dréacht de eagrán den téacs le haistriúchán agus tráchttaireacht, agus roinnt staidéir ar ghnéithe den tráchtas, ceann acu atá le foilsiú in *Celtica* 28. Chríochnaigh sé a chuid oibre ar eagrán le haistriúchán, nótaí agus staidéir ar mhír de thráchtas ar ghramadach agus prosóid i lámhscríbhinn A 4 UCD-OFM nár tugadh faoi deara cheana. Thosnaigh ar imeachtaí na comhdhála 'The medieval and early modern Irish grammatical and metrical tradition' a reachtáladh sa Scoil ar an 26ú Meán Fómhair 2014, agus lean sé ar a iontráil chatalóige i gcomhair cuid de Leabhar Búí Leacáin.

Lean Mona Jakob ar a cuid taighde ar chúrsaí meadarachta na Luath-Ghaeilge.

Lean Síle Ní Mhurchú ag obair ar thaighde ar eagrán de *Agallamh Oisín agus Phádraig*, bunaithe ar an LS A iv 2 i nAcadamh Ríoga na hÉireann, agus ar fhoinsí lámhscríbhinne do dhánta grá na Gaeilge Clasaicí.

Lean Mícheál Hoyne lena chuid oibre ar a thionscnamh taighde, eadhón eagrán de dhánta an fhile Seifín Mór, a bhain leis an 15ú haois, agus ar staidéir den ghné den bhfilíocht a chleacht sé, *brúilingeacht*. Tá an tionscnamh ag dul ar aghaidh go maith, agus tá sé ag súil leis go mbeidh sé críochnaithe laistigh de théarma trí blian Scoláireacht Uí Dhonnabháin.

Thosnaigh Marie-Luise Theuerkauf ag obair ar a tionscnamh taighde ar an Dindsheanchas i Leabhar Búí Leacáin.

MEAMRAM PÁIPÉAR RÍOMHAIRE (ISOS)

Lean tionscadal Mheamram Páipéar Ríomhaire le hobair ar dhigitíú lámhscríbhinní agus ar uasghrádú an bhunachair sonraí ollmhór agus cartlann an ábhair dhigitithe atá ag ISOS. I mbliana cuireadh ar fáil ar an suíomh lín sé lámhscríbhinn i nAcadamh Ríoga na hÉireann (23 A 4, 23 N 16, 23 N 17, 23 N 29, A iv 3 and B iv 2), sé lámhscríbhinn i Leabharlann Náisiúnta na hAlban (72.2.1, 72.2.2, 72.2.4, 72.2.6, 72.2.9 and 72.2.15) chomh maith le sé lámhscríbhinn déag i Leabharlann Óstaí an Rí (LSS 2–8 and 10–18).

OGHAM IN 3D

Sa bhliain 2015 bhronn an tSeirbhís Séadchomharthaí Náisiúnta (NMS), an Roinn Ealaíon, Oidhreacht agus Gaeltachta tuilleadh tacaíochta airgeadais don tionscadal atá á chur i gcrích i gcomhar leis an gClár Fionnachtana. Rinneadh scanadh agus digitíú ar an 18 cloch oghaim eile atá faoi chúram an Stáit, ionnas go bhfuil scanadh agus digitíú déanta orthu ar fad, agus deireadh leis an gcéim seo den tionscnamh. Tá anois níos mó ná 100 cloch oghaim ar fáil ar an suíomh, an ceathrú cuid dá bhfuil ar eolas againn.

Chomh maith leis sin tosaíodh ar chéim nua i mí Iúil 2015, bunaithe ar an dul chun cinn atá déanta le déanaí le húsáid bogearra 'Photogrammetry/Structure from Motion' chun mionsamhla a chruthú as grianghrafanna níos tapúla agus níos cruinne. Sa chéim seo táimid ag lorg cabhrach ó phobail áitiúla chun taifead a dhéanamh ar na clocha leis an modh seo, nach bhfuil ag teastáil chuige ach ceamara digiteach agus scileanna sa ghrianghrafadóireacht agus cúrsaí ríomhaireachta.

Tá tionscadal píolóta curtha ar bun i gCorca Dhuibhne i gCo. Chiarraí, an ceantar leis an líon is mó dena clocha oghaim sa tír. Bhí níos mó ná tríocha duine a raibh suim acu bheith rannpháirteach sa tionscadal i láthair ag seisiún eolais ar an mBuailtín i mí na Samhna, agus leanfaidh a bhformhór ar aghaidh go dtí an chéad chéim eile, eadhón cúrsa traenála in Earrach na bliana 2016.

Foilseacháin: 'Ogham Preserved Digitally - 3D Technology for a 3D Script', *Archaeology Ireland* 29.2 (2015) i gcomhar le F. Moore, R. Shaw agus G. Devlin; 'Ogham in 3D: Digitizing a Unique Aspect of Ireland's Cultural Heritage', *Breac - A Digital Journal of Irish Studies*, 3 (2015).

School of Celtic Studies (continued)

Publications

'Ogham Preserved Digitally - 3D Technology for a 3D Script', *Archaeology Ireland* 29.2 (2015) with F. Moore, R. Shaw and G. Devlin.

'Ogham in 3D: Digitizing a Unique Aspect of Ireland's Cultural Heritage', *Breac - A Digital Journal of Irish Studies*, 3(2015).

Conference Papers, Presentations

Feb 2015, Future Thinking on Carved Stones in Scotland (Glasgow), Workshop I (Digital recording of carved stones for research) participation and Ogham in 3D presentation.

March 2015, co-organised and presented at an internationally attended Ogham Workshop at IMMA to consider future directions for ogham studies. Subsequently set up the Ogham Studies Network.

April 2015, Rathcroghan Conference (Archaeology Above and Below): 'Ogham in 3D and Surveying Oweynagat'.

July 2015, Celtic Studies Congress (Glasgow). Chaired a dedicated Ogham Session, which included an Ogham Studies Network meeting.

Aug 2015, Waterford Archaeological and Historical Society tour of Knockboy/Seskinan Medieval Church and Ogham stones.

Nov 2015, VHN (Virtual Heritage Network) Conference (Maynooth): 'Ogham in 3D - Digitising Ireland's Ogham Stones'.

Nov 2015, Interviewed while on field work in Co. Kerry for a documentary 'Back to The Future - Archaeology Meets Technology' on Newstalk radio station.

BIBLIOGRAPHY

Alexandre Guilarte continued to work on the compilation of the *Bibliography of Irish Linguistics and Literature (BILL)*, concentrating on the analysis and indexation of book titles (including monographs, lectures, congress proceedings, collected papers, and honorary volumes). He also worked on updating the journal contents in *BILL*, as well as systematically entering reviews (published 1972 onwards) of books and periodicals on Irish philological studies. He also worked with Andrew McCarthy, on improving the *BILL* database systems and web design, including the preparation a new text-search platform.

He presented a paper on 'Progress in Irish bibliography' at the XV International Congress of Celtic Studies, Glasgow, 17 July 2015.

He contributed entries on Celtic studies publications to appear in vols 48/2 and 49/1 of the *International Medieval Bibliography* edited by the Institute for Medieval Studies, University of Leeds, and published by Brepols.

MANUSCRIPT STUDIES

Professor Liam Breatnach continued direction of a diplomatic edition of the early 15th-century manuscript *Leabhar Breac*, and a project involving staff and scholars of the School to produce a new catalogue on the contents of the Yellow Book of Lecan.

PUBLICATIONS

The year 2015 saw the publication of Barry Lewis, *Medieval Welsh Poems to Saints and Shrines*, Medieval and Modern Welsh Series 14, and Liam Breatnach, Ruairí Ó hUiginn, Damian McManus and Katharine Simms (eds) *Proceedings XIV International Congress of Celtic Studies Maynooth 2011*.

LIBRARY

Current and retrospective cataloguing continued. Acquisitions continued in subject areas relevant to the research needs of the School. Regular updates on recent accessions and current periodicals (both print and online) were issued. Research and bibliographical queries from members of the School were dealt with. Inter-library loans were ordered, consulted and returned to the lending institution.

The Library catalogue was migrated from Heritage to Koha in late 2015. The new catalogue can be viewed online at library.celt.dias.ie

The Committee met twice in 2015, in August and November. The Library Committee advises on library policies, promotion of the library and on development and implementation of strategic changes. Committee members are Liam Breatnach, Aoibheann Nic Dhonnchadha, Alexandre Guilarte and the Librarian (Margaret Irons/George Rogers).

Culture Night

The School of Celtic Studies hosted an event as part of Culture Night 2015 on Friday September 18. Culture Night is an evening of free cultural events hosted throughout Dublin City.

Dr Micheal Hoyne gave a lecture about An Stad. Located on North Frederick St in Dublin, fronted as a tobacco shop, An Stad became a focal point for many Irish cultural organisations in the early 20th Century. Numerous historical Irish figures frequented An Stad and many left entries in the shop's renowned guestbooks – which the Institute is in possession of. The guestbooks were displayed in the Lecture Room on the evening. An array of books published by DIAS was also on display. After the speaker had concluded, guests were given the opportunity to view the guestbooks for themselves. The School welcomed 33 guests to the event.

Scoil an Léinn Cheiltigh (ar leanúint)

Páipéir chomhdhála, cur i láthair: Feabhra 2015, Future Thinking on Carved Stones in Scotland (Glasgow), Workshop I (Digital recording of carved stones for research): d'fhreastail N. White agus thug caint ar an tionscnamh Ogham in 3D. Márta 2015, rinne N. White comheagrú ar agus thug caint ag ceardlann idirnáisiúnta ar an Ogham ag IMMA, agus ina dhiaidh sin chuir an Ogham Studies Network ar bun. Aibreán 2015, Comhdháil Ráth Chruachan (Archaeology Above and Below): 'Ogham in 3D and Surveying Oweynagat'. Iúil 2015, an 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú. Bhí N. White ina cathaoirleach ar sheisiún ar an Ogham. Thug N. White cainteanna ar on Ogham freisin don Waterford Archaeological and Historical Society, i Lúnasa 2015, don chomhdháil den Virtual Heritage Network i Má Nuad agus ar stáisiún raidió Newstalk i Samhain 2015.

BIBLEAGRAFAÍOCHT

Lean Alexandre Guilarte lena chuid oibre ar *Bibliography of Irish Linguistics and Literature (BILL)* a chur i dtoll a chéile, ag díriú ar anailís agus innéacsú ar theidil thréimhsiúla agus ag an am céanna ag cur líon mór iontrálacha nua isteach do leabhair agus monagraif ar staidéir theangeolaíoch na hÉireann. Chomh maith leis sin rinne sé obair le Andrew McCarthy ar leagan amach an tsuímh lín, ag díriú ar na huirlisí cuardaigh a fheabhsú. Thug sé caint ar 'Progress in Irish bibliography' ag an 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú 17 Iúil 2015. Sholáthair sé iontrálacha do imleabhair 48/2 agus 49/1 den *International Medieval Bibliography*, in eagar ag an Institute for Medieval Studies, University of Leeds agus foilsithe ag Brepols.

LÉANN LÁMHSCRÍBHINNÍ

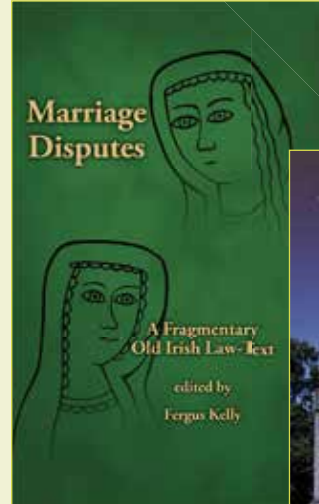
Lean an tOllamh Liam Breatnach ag stiúradh eagráin dioplómaitiúil den lámhscríbhinn ó thús na 15ú haoise déag *An Leabhar Breac*, agus le tionscnamh, ina bhfuil baill foirne agus scoláirí páirteach, chun catalóg nua a sholáthar do Leabhar Bui Leacáin.

FOILSEACHÁIN

Foilsíodh i mbliana *Medieval Welsh Poems to Saints and Shrines*, Medieval and Modern Welsh Series 14, in eagar ag Barry Lewis, agus *Proceedings XIV International Congress of Celtic Studies Maynooth 2011*, in eagar ag Liam Breatnach, Ruairí Ó hUiginn, Damian McManus agus Katharine Simms.

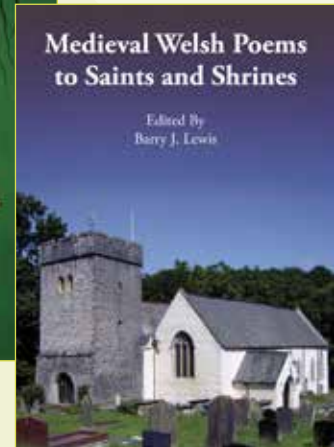
LEABHARLANN

Leanadh le catalógú reatha agus siarghabhálach ar an leabharlann. Leanadh le sealbhú i gcomhair réimsí ábhair a bhí ábhartha do riachtanais thaighde na Scoile. Eisíodh nuashonruithe rialta ar shealbhu a rinneadh le déanaí agus ar thréimhseacháin reatha agus déileáladh le ceisteanna taighde agus leabharliosta ó bhaill na Scoile agus ó chuirteoirí.



Foilseacháin nua 2015

New Publications in 2015



Aistríodh catalóg na Leabharlainne ó Heritage go Koha i dtreo dheireadh na bliana 2015. Is féidir an chatalóg nua a fheiscint ar líne ag library.celt.dias.ie. Tháinig Coiste na Leabharlainne le chéile i Lúnasa agus i Samhain. Tugann an coiste comhairle ar pholasaí na leabharlainne, cur chun cinn na leabharlainne, agus forbairt agus cur i gcrích athraithe straitéiseacha. Is iad baill an choiste Liam Breatnach, Aoibheann Nic Dhonnchadha, Alexandre Guilarte agus an Leabharlannaí (Margaret Irons/George Rogers).

Oíche Chultúir

D'eagraigh foireann na leabharlainne rannpháirtíocht na Scoile san 'Oíche Chultúir' (Dé hAoine, 18 Meán Fómhair 2015). Thug an Dr Mícheál Hoyne léacht ar An Stad. Suite ar Shráid Frederic Thuaidh i mBaile Átha Cliath, bhí an siopa tobac seo ina phointe comhtheagmhála i gcomhair mórán eagraíochtaí cultúrtha Éireannacha go luath sa 20ú haois. Shínigh cuid mhaith de na daoine cáiliúla a thaithigh an siopa na leabhair aionna atá anois i seilbh na hInstitiúide. Bhí taispeántas de na leabhair seo chomh maith le rogha de fhoilseacháin na hInstitiúide sa Seomra Léachta. Chuir an Scoil fáilte roimh 33 aoi ar an oíche.

TIONÓL 2014

Tharraing Tionól na bliana seo lucht éisteachta an-leathan arís i mbliana, le painéal idirnáisiúnta cainteoirí, agus lean sé ón 19ú go dtí an 21ú de mhí na Samhna. Rinneadh freastal an-ard, suas le nócha duine sa lucht éisteachta. Tugadh na páipéir seo leanas (san ord inar cuireadh i láthair iad) ar an Déardaoin an 19ú: Mona Jakob, Conceptual Rhyming Patterns in Old and Middle Irish – a Case Study; Mícheál Hoyne, Lower-class Entertainers at the Later Medieval Gaelic Court.

TIONÓL 2015

This year's Tionól again attracted a very wide audience, with an international panel of speakers. Attendance was high, with audiences reaching ninety people. The following papers were delivered (in order of presentation) on Thursday the 19th: Mona Jakob, Conceptual Rhyming Patterns in Old and Middle Irish – a Case Study; Mícheál Hoyne, Lower-class Entertainers at the Later Medieval Gaelic Court.

The following were delivered on Friday 20th: Nicole Volmering, Reading and Writing the *Féilire Óengusso*; Tomás Ó Cathasaigh, Dubthach's *laíd* in *Táin Bó Cúailnge*; Paul Russell, The Lincoln *Vita S. Davidi* revisited; Fangzhe Qiu, Manuscript Contexts of Early Irish Law Tracts: a Preliminary Study; Síle Ní Mhurchú, Na Dánta Grá: Léargaisí ós na Lámhscríbhinní; Guto Rhys, Pictish *kon versus Brittonic *kun – a Distinctive Pictish Feature Questioned; Elliott Lash, “Non-canonical” Subject Positions in Passive Sentences; Jacopo Bisagni, The Hiberno-Latin Exegesis of Musical Instruments and a Newly-discovered Old Irish Gloss; Peadar Ó Muircheartaigh, A Manx Ballad in Belanagare and its Significance: Fin as Ossian Revisited; Brendan Kane and Wes Hamrick, Reading Early Modern Irish: a Digital Guide to Reading and Paleography, c. 1200–1650.

The following were delivered on Saturday 21st: Colmán Etchingham, The So-called Osraige Chronicle in the *Fragmentary Annals Sections IV and V* Reconsidered; Caoimhín Breatnach, Editions and Dating of *Acallam na Senórach*; Ben Guy, The Manuscript Tradition of the Llywelyn ab Iorwerth Genealogies; Aaron Griffith, A Minor Old Irish Sound Law and the Copula; Silva Nurmio, The Shape of Water: Mass Nouns in Irish and Welsh; Andrea Palandri, The Irish Marco Polo in the Book of Lismore: an Introduction and Some Linguistic Issues; Liam P. Ó Murchú, A War Poem, circa 1599; Gordon Ó Riain, Remarks on the Citations in IGT V; Éamon Ó Ciosáin, A Breton Narrative of four and a half Years on the Front Lines, 1914-18: *Kammadro an Ankeu* by Loeiz Herriou; Aidan O'Sullivan, Brendan O'Neill and Eileen Reilly, How to Build an Early Medieval Round House: Some Perspectives from Archaeology, Early Irish History, and Experimental Archaeology.

The Statutory Public Lecture, held in conjunction with the Tionól, was delivered in TCD by Professor Ruairí Ó hUiginn under the title 'The Emergence of Modern Irish' on Friday the 20th of November at 8.00 p.m. This was a very well-attended lecture, and a recording is now available on the School's website.

SEMINARS AND LECTURES

Liam Breatnach continued a seminar on Early Irish verse texts from January to May and October to December.

Barry Lewis conducted a seminar on 'Poetry of Madog Benfras and Others', from January to May, and one on 'Poetry of Guto'r Glyn', from October to December.

Papers and lectures were delivered by staff at national and international conferences and venues as follows:

(Liam Breatnach) 'On Old Irish Collective and Abstract Nouns and the Meaning of *cétmuinter*', XV International Congress of Celtic Studies, Glasgow, 16 July 2015.

(Barry Lewis) 'The Cataloguing of Saints in Medieval Wales and Ireland', research seminar of the Department of Early Irish and Celtic Studies, Maynooth, 19 February 2015; 'Magna, Sister of St David: A Case Study in Hagiographical Invention in Medieval Wales, Brittany and Ireland', Ó Cléirigh Seminar, UCD, Dublin, 8 May 2015; 'The Background of *Bonedd y Saint*', XV International Congress of Celtic Studies, Glasgow, 14 July 2015; *Bonedd y Saint*, Tyddewi a Gwynedd', the Saints' Project workshop, Bangor Cathedral, 12 September 2015; 'Magna, Sister of St David: A Case Study in Hagiographical Invention in Medieval Wales, Brittany and Ireland', Department of Early and Medieval Irish, University College Cork, 21 October 2015; 'Magna, Chwaer Dewi Sant, ac Eglwys Ddiflanedig yng Ngheredigion', Centre for Advanced Welsh and Celtic Studies, Aberystwyth, 5 November 2015.

(Aoiheann Nic Dhonnchadha) 'Three 15th-century Irish Treatises on Plague', University of Aberdeen, 3 March 2015; 'The Medical Texts in the Book of Fermoy', Fermoy Community Centre, Fermoy, 2 May 2015; 'Leabharlann de Hindeberg: Bunú agus Forbairt', Coláiste na Rinne, 23 May 2015; 'Daonscoil na Mumhan: Oscailt Oifigiúil', Coláiste na Rinne, August 2015; 'Medical Writing in Irish, 1350–1650: Treatises on Pathology', Royal Irish Academy, 4 November 2015; 'Rosa Anglica: Structure, Manuscripts and Derivative Texts' University College Cork, 7 November 2015.

(Brian Ó Curnáin) 'An Bláth ar an gCrann Feoite: Gaeilge Oirthear na Gaillimhe', Cumann na nIarmhúinteoirí, Ionad Oideachais na Gaillimhe, 17 November 2015; 'Atógáil ár nOidhreacht Teanga i mBaile Chláir ó na Fothracha Aníos', at conference 'Ó Bhéal go Pár; Ciarán Bairéad is a shaothar i mBaile Chláir na Gaillimhe', Caisleán Bhaile Chláir, Co. na Gaillimhe, 29 August 2015; (with T. Pétarváry and C. Ó Giollagáin) 'Analysis of Bilingual Competence: Bilingualised Minoritisation of Gaeltacht Irish', XV International Congress of Celtic Studies, Glasgow, 14 July 2015; 'New Speakers of New Irish and Globalised English through the Deterritorialised Autochthony of Modernity at Large', Symposium on Celtic Languages, UCD, 24 June 2015; 'The Challenges of Bilingual Acquisition in Minority Language Communities', Ollscoil Inbhir Nis, 26 March 2015; 'An Dán Díreach, Carnach, Meánach', Teangeolaíocht na Gaeilge 17, Maynooth University, 11 April 2015.

(Gordon Ó Riain) 'Remarks on the Citations in IGT V', Tionól, DIAS, 21 November 2015; 'Observations on the Citations in IGT V', 14th International Symposium of Societas Celtologica Nordica, Uppsala Universitet, 29 May 2015.

Scoil an Léinn Cheiltigh (ar leanúint)

Tugadh na páipéir seo leanas ar an Aoine an 20ú: Nicole Volmering, Reading and Writing the *Féilire Óengusso*; Tomás Ó Cathasaigh, Dubthach's *laíd* in *Táin Bó Cúailnge*; Paul Russell, The Lincoln *Vita S. Davidi* revisited; Fangzhe Qiu, Manuscript Contexts of Early Irish Law Tracts: a Preliminary Study; Síle Ní Mhurchú, Na Dánta Grá: Léargaisí ós na Lámhscríbhinní; Guto Rhys, Pictish *kon versus Brittonic *kun – a Distinctive Pictish Feature Questioned; Elliott Lash, “Non-canonical” Subject Positions in Passive Sentences; Jacopo Bisagni, The Hiberno-Latin Exegesis of Musical Instruments and a Newly-discovered Old Irish Gloss; Peadar Ó Muircheartaigh, A Manx Ballad in Belanagare and its Significance: Fin as Ossian Revisited; Brendan Kane and Wes Hamrick, Reading Early Modern Irish: a Digital Guide to Reading and Paleography, c. 1200–1650.

Tugadh na páipéir seo leanas ar an Satharn an 21ú: Colmán Etchingham, The So-called Osraige Chronicle in the *Fragmentary Annals* Sections IV and V Reconsidered; Caoimhín Breatnach, Editions and Dating of *Acallam na Senórach*; Ben Guy, The Manuscript Tradition of the Llywelyn ab Iorwerth Genealogies; Aaron Griffith, A Minor Old Irish Sound Law and the Copula; Silva Nurmio, The Shape of Water: Mass Nouns in Irish and Welsh; Andrea Palandri, The *Irish Marco Polo* in the Book of Lismore: an Introduction and Some Linguistic Issues; Liam P. Ó Murchú, A War Poem, circa 1599; Gordon Ó Riain, Remarks on the Citations in IGT V; Éamon Ó Ciosáin, A Breton Narrative of four and a half Years on the Front Lines, 1914–18: *Kammdro an Ankeu* by Loeiz Herriou; Aidan O'Sullivan, Brendan O'Neill and Eileen Reilly, How to Build an Early Medieval Round House: Some Perspectives from Archaeology, Early Irish History, and Experimental Archaeology.

Thug an tOllamh Ruairí Ó hUiginn an Léacht Phoiblí Reachtúil a reachtáladh i gcomhar leis an Tionól i gColáiste na Tríonóide, Baile Átha Cliath ar an Aoine an 20ú Samhain, faoin teideal 'The Emergence of Modern Irish'. Bhí freastal an-mhaith ar an léacht seo, agus tá taifead den léacht ar fáil anois ar shuíomh gréasáin na Scoile.

SEIMINEÁIR AGUS LÉACHTAÍ

Lean Liam Breatnach lena sheimineár ar théacsanna véarsaíochta Luath-Ghaeilge ó Eanáir go Bealtaine, agus ó Dheireadh Fómhair go Nollaig.

Reachtáil Barry Lewis seimineár ar 'Poetry of Madog Benfras and Others' (Eanáir go hAibreán) agus ceann ar 'Poetry of Guto'r Glyn' (Deireadh Fómhair go Samhain).

Chuir baill foirne páipéir agus léachtaí i láthair ag comhdhálacha agus ag ionaid náisiúnta agus idirnáisiúnta mar seo a leanas: (Liam Breatnach) 'On Old Irish Collective and Abstract Nouns and the Meaning of *cétmuinter*', 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú 16 Iúil 2015. (Barry Lewis) 'The Cataloguing of Saints in Medieval

Wales and Ireland', seimineár taighde Roinn na Luath-Ghaeilge agus an Léinn Cheiltigh, Má Nuad, 19 Feabhra 2015; 'Magna, Sister of St David: A Case Study in Hagiographical Invention in Medieval Wales, Brittany and Ireland', seimineár Uí Chléirigh Seminar, COBÁC, 8 Bealtaine 2015; 'The Background of *Bonedd y Saint*', 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú 14 Iúil 2015; *Bonedd y Saint*, Tyddewi a Gwynedd', ceardlann Tionscnaimh na Naomh, Príomheaglais Bangor, 12 Meán Fómhair 2015; 'Magna, Sister of St David: A Case Study in Hagiographical Invention in Medieval Wales, Brittany and Ireland', Roinn na Sean-Ghaeilge, Coláiste na hOllscoile, Corcaigh, 21 Deireadh Fómhair 2015; 'Magna, Chwaer Dewi Sant, ac Eglwys Ddiflanedig yng Ngheredigion', Lárionad Ard-Léinn sa Bhreathnais agus an Léann Ceilteach, Aberystwyth, 5 Samhain 2015. (Aoibheann Nic Dhonnchadha) 'Three 15th-century Irish Treatises on Plague', Ollscoil Aberdeen, 3 Márta 2015; 'The Medical Texts in the Book of Fermoy', Ionad Pobail Mainistir Fhear Muí, 2 Bealtaine 2015; 'Leabharlann de Hindeberg: Bunú agus Forbairt', Coláiste na Rinne, 23 Bealtaine 2015; 'Daonscoil na Mumhan: Oscailt Oifigiúil', Coláiste na Rinne, Lúnasa 2015; 'Medical Writing in Irish, 1350–1650: Treatises on Pathology', Acadamh Ríoga na hÉireann, 4 Samhain 2015; 'Rosa Anglica: Structure, Manuscripts and Derivative Texts' Coláiste na hOllscoile, Corcaigh, 7 Samhain 2015.

(Brian Ó Curnáin) 'An Bláth ar an gCrann Feoite: Gaeilge Oirthear na Gaillimhe', Cumann na nIarmhúinteoirí, Ionad Oideachais na Gaillimhe, 17 Samhain 2015; 'Atógáil ár nOidhreacht Teanga i mBaile Chláir ó na Fothracha Aníos', ag comhdháil 'Ó Bhéal go Pár; Ciarán Bairéad is a shaothar i mBaile Chláir na Gaillimhe', Caisleán Bhaile Chláir, Co. na Gaillimhe, 29 Agust 2015; (le T. Pétarváry agus C. Ó Giollagáin) 'Analysis of Bilingual Competence: Bilingualised Minoritisation of Gaeltacht Irish', 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú 14 Iúil 2015; 'New Speakers of New Irish and Globalised English through the Deterritorialised Autochthony of Modernity at Large', Siompóisiam na dTeangacha Ceilteacha, COBÁC, 24 Meitheamh 2015; 'The Challenges of Bilingual Acquisition in Minority Language Communities', Ollscoil Inbhir Nis, 26 Márta 2015; 'An Dán Díreach, Carnach, Meánach', Teangeolaíocht na Gaeilge 17, Ollscoil Mhá Nuad, 11 Aibreán 2015. (Gordon Ó Riain) 'Remarks on the Citations in IGT V', Tionól, Institiúid Ard-Léinn BÁC, 21 Samhain 2015; 'Observations on the Citations in IGT V', 14ú Siompóisiam Idirnáisiúnta de Societas Celtologica Nordica, Uppsala Universitet, 29 Bealtaine 2015. (Mona Jakob) 'Better than All Fame – Chevilles in Old and Middle Irish', 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú 14 Iúil 2015; 'Conceptual Rhyming Patterns in Old and Middle Irish', Tionól, Institiúid Ard-Léinn BÁC, 19 Samhain 2015. (Síle Ní Mhurchú) 'Na Dánta Grá: Léargaisí ós na Lámhscríbhinní', Tionól, Institiúid Ard-Léinn BÁC, 20 Samhain 2015; "Galar nách fóir luibh ná liaigh": Galar an Ghrá i nDánta Grá na Gaeilge', Scoil Samhraidh Merriman, An Inis, Co. an Chláir, 15 Lúnasa 2015;

School of Celtic Studies (continued)

(Mona Jakob) 'Better than All Fame – Chevilles in Old and Middle Irish', XV International Congress of Celtic Studies, Glasgow, 14 July 2015; 'Conceptual Rhyming Patterns in Old and Middle Irish', Tionól, DIAS, 19 November 2015.

(Síle Ní Mhurchú) 'Na Dánta Grá: Léargaisí ós na Lámhscríbhinní', Tionól, DIAS, 20 November 2015; "Galar náach fóir luibh ná liaigh": Galar an Ghrá i nDánta Grá na Gaeilge', Merriman Summer School, Ennis, Co. Clare, 15 August 2015; 'Observations on the Manuscript Sources for the *dánta grádha*', XV International Congress of Celtic Studies, Glasgow, 17 July 2015; organised and took part in the roundtable 'Sources for the Study of Fíanaigeacht: Approaches and Methods', XV International Congress of Celtic Studies, Glasgow, 16 July 2015.

(Mícheál Hoyne) 'Poets, Bards and Buffoons at the Later Medieval Gaelic Court', XV International Congress of Celtic Studies, Glasgow, 16 July 2015; 'Lower-class Entertainers at the Later Medieval Gaelic Court', Tionól, DIAS, 19 November; as part of Culture Night 2015, delivered two talks for the general public at DIAS on *An Stad* (see above).

EDITING

Liam Breatnach was co-editor with D. Mc Manus of *Ériu* volume 65. He also edited, with Ruairí Ó hUiginn, Damian McManus and Katharine Simms, the *Proceedings XIV International Congress of Celtic Studies Maynooth 2011*, published by DIAS in 2015.

Pádraig Breatnach, Barry Lewis and Fergus Kelly worked as co-editors on *Celtica* 28.

Aoibheann Nic Dhonnchadha edited (with Prof. Pádraig Ó Macháin, UCC) *An Linn Bhui: Iris Ghaeltacht na nDéise* 19 (2015).

Síle Ní Mhurchú worked on the *Proceedings of the Second International Finn Cycle Conference*, a collection of essays she is co-editing with Sharon Arbutnot of QUB and Geraldine Parsons of Glasgow University.

Mícheál Hoyne was the editorial assistant and English-language proof-reader for *Yn Llawn lawn, Yn Llawn Iaith: Proceedings of the 6th International Colloquium of Societas Celto-Slavica (Studia Celto-Slavica)*, eds Dafydd Johnston, Elena Parina, Maxim Fomin (University of Wales Press 2015).

EXTERNAL EXAMINING AND MEMBERSHIP OF COMMITTEES

Liam Breatnach was an examiner for the Oxford DPhil thesis on 'The Early Irish Law of Pledging', by Jaqueline Bemmer. He was also a member of the board of eDIL.

Barry Lewis was a member of the editorial board of the 'Poets of the Nobility' series (Centre for Advanced Welsh and Celtic Studies, Aberystwyth), and of the advisory committee to the



Dr. Immo Warntjes (Queen's University Belfast). Lecture "Mathematics vs Astronomy in early Medieval Ireland".

Dr Immo Warntjes (Ollscoil na Banríona, Béal Feirste) ag tabhairt léacht dár teideal 'Mathematics vs Astronomy in early Medieval Ireland'.

'Cult of Saints in Wales' project (Centre for Advanced Welsh and Celtic Studies, Aberystwyth).

Aoibheann Nic Dhonnchadha was a member of the Editorial Board of *CELT*, UCC, and of *An Fochoiste Leabharlainne, Leabharlann de Hindeberg, Coláiste na Rinne*.

Brian Ó Curnáin was an advisor to the research group PEER, Soillse, Ollscoil na Gaeltachta agus na nOileán, Scotland, as well as to the organisation Breacadh.

Gordon Ó Riain was a member of the advisory committee for the multi-national digital humanities project based at University of Connecticut, 'Reading Early Modern Irish: a Digital Guide to Irish Gaelic (c. 1200-1650)'.

Mícheál Hoyne acted as an external examiner for a Masters thesis in Celtic Studies in the Philipps-Universitaet in Marburg, Germany. He was also a member of the advisory committee for the multi-national digital humanities project based at University of Connecticut, 'Reading Early Modern Irish: a Digital Guide to Irish Gaelic (c.1200-1650)'.

PUBLICATIONS BY MEMBERS OF STAFF

Liam Breatnach:

'Legal and Societal Aspects of the Poems of Blathmac', in Pádraig Ó Riain (ed.), *The Poems of Blathmac Son of Cú Brettan: Reassessments*. Irish Texts Society Subsidiary Series 27 (London 2015) 104–18.

'Lebor na hUidre: Some Linguistic Aspects', in Ruairí Ó hUiginn (ed.) *Lebor na hUidre*. Codices Hibernenses Eximii 1 (Dublin 2015) 53–77.

'*Sluindfet dúib dagaisti in dána: A Middle Irish Poem on Metres*', in Caoimhín Breatnach and Meidhbhín Ní Úrdail (eds) *Aon don*

Scoil an Léinn Cheiltigh (ar leanúint)

'Observations on the Manuscript Sources for the *dánta grádha*', 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú 17 Iúil 2015; d'eagraigh agus ghlac páirt sa seisiún ar 'Sources for the Study of Fíanaigeacht: Approaches and Methods', 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú 16 Iúil 2015. (Mícheál Hoyne) 'Poets, Bards and Buffoons at the Later Medieval Gaelic Court', 15ú Comhdháil Idirnáisiúnta sa Léann Ceilteach, Glaschú 16 Iúil 2015; 'Lower-class Entertainers at the Later Medieval Gaelic Court', Tionól, Institiúid Ard-Léinn BÁC, 19 Samhain 2015; mar chuid den Oíche Chultúir 2015, thug dhá léacht ar *An Stad* (féach thuas).

EAGARTHÓIREACHT

Bhí Liam Breatnach ina chomheagarthóir le D. Mc Manus ar *Ériu* imleabhar 65. Bhí sé mar chomeagarthóir, le Ruairí Ó hUiginn, Damian McManus agus Katharine Simms, ar *Proceedings XIV International Congress of Celtic Studies Maynooth 2011*, a d'fhoilsigh an Institiúid i 2015.

D'oibrigh Pádraig Breatnach, Barry Lewis agus Fergus Kelly mar chomheagarthóirí ar ar *Celtica* 28.

Bhí Fergus Kelly ina eagarthóir inmheánach chomh maith ar Elizabeth Boyle agus Deborah Hayden (eag.), *Authorities and Adaptations: The Reworking and Transmission of Sources in Medieval Ireland*.

Bhí Aoihbheann Nic Dhonnchadha mar eagarthóir, i gcomhar leis an Ollamh Pádraig Ó Macháin, ar *An Linn Bhuí: Iris Ghaeltacht na nDéise* 19 (2015).

D'oibrigh Síle Ní Mhurchú ar *Proceedings of the Second International Finn Cycle Conference*, bailiúchán d'aistí a bhfuil Sharon Arbuthnot, Coláiste na Ríona, agus Geraldine Parsons, Ollscoil Ghlaschú mar chomheagarthóirí air.

Bhí Mícheál Hoyne ina chúntóir eagarthóireachta agus in léitheoir profaí Béarla do Yn Llawn lawn, *Yn Llawn Iath: Proceedings of the 6th International Colloquium of Societas Celto-Slavica (Studia Celto-Slavica)*, in eagar ag Dafydd Johnston, Elena Parina, Maxim Fomin (University of Wales Press 2015).

SCRÚDÚCHÁN SEACHTRACH AGUS BALLRAÍOCHT CHOISTÍ

Bhí Liam Breatnach ina scrúdaitheoir seachtrach don tráchtas DPhil in Ollscoil Oxford ar 'The Early Irish Law of Pledging', le Jacqueline Bemmer. Bhí sé freisin ina bhall de bhord eDIL.

Bhí Barry Lewis ina bhall den Bhord Comhairleach don tionscnamh 'Cult of Saints in Wales' agus ina bhall den Bhord Eagarthóireachta don sraith 'Poets of the Nobility' (araon don Lárionad Ard-Léinn sa Bhreataine agus an Léann Ceilteach, Ollscoil na Breataine Bige).

Bhí Aoihbheann Nic Dhonnchadha ina ball den Fhochoiste Leabharlainne, Leabharlann de Hindeberg, Coláiste na Rinne, agus de bhord eagarthóireachta CELT.

Bhí Brian Ó Curnáin ina chomhairleoir don ghrúpa taighe PEER, Soillse, Ollscoil na Gaeltachta agus na nOileán, Albain, agus don eagraíocht Breacadh.

Bhí Gordon Ó Riain ina bhall den Choiste Comhairleach Idirnáisiúnta do thionscnamh bunaithe in Ollscoil Connecticut, 'Reading Early Modern Irish: a digital guide to Irish Gaelic (c. 1200-1650)'.

Bhí Mícheál Hoyne ina scrúdaitheoir seachtrach do thráchtas MA sa Léann Ceilteach i Philipps-Universität i Marburg na Gearmáine. Bhí sé freisin ina bhall den Choiste Comhairleach Idirnáisiúnta do thionscnamh bunaithe in Ollscoil Connecticut, 'Reading Early Modern Irish: a digital guide to Irish Gaelic (c. 1200-1650)'.

FOILSEACHÁIN

Liam Breatnach:

'Legal and Societal Aspects of the Poems of Blathmac', in Pádraig Ó Riain (ed.), *The Poems of Blathmac Son of Cú Brettan: Reassessments*. Irish Texts Society Subsidiary Series 27 (London 2015) 104–18.

'Lebor na hUidre: Some Linguistic Aspects', in Ruairí Ó hUiginn (ed.) *Lebor na hUidre*. Codices Hibernenses Eximii 1 (Dublin 2015) 53–77.

'*Sluindfet dúib dagaisti in dána*: A Middle Irish Poem on Metres', in Caoimhín Breatnach and Meidhbhín Ní Úrdail (eds) *Aon don Éigse. Essays Marking Osborn Bergin's Centenary Lecture on on Bardic Poetry (1912)* (Dublin 2015) 51–90.

(le Elizabeth Boyle) '*Senchas Gall Átha Clíath*: Aspects of the Cult of St Patrick in the Twelfth Century', in John Carey, Kevin Murray and Caitríona Ó Dochartaigh (eds) *Sacred Histories. A Festschrift for Máire Herbert* (Dublin 2015) 22–55.

Barry Lewis:

Medieval Welsh Poems to Saints and Shrines, Medieval and Modern Welsh Series 14 (Dublin 2015).

'La frontière dans les œuvres des poètes gallois du bas Moyen Âge', in Hélène Bouget and Magali Coumert (eds), *Histoires des Breagnes 5: En marge* (Brest 2015) 227–43.

Léirmheas ar Proinsias Mac Cana, *The Cult of the Sacred Centre: Essays on Celtic Ideology* (Dublin 2011) in *Llên Cymru* 37 (2015) 99–103.

School of Celtic Studies (continued)

Éigse. *Essays Marking Osborn Bergin's Centenary Lecture on Bardic Poetry (1912)* (Dublin 2015) 51–90.

(with Elizabeth Boyle) 'Senchas Gall Átha Clíath: Aspects of the Cult of St Patrick in the Twelfth Century', in John Carey, Kevin Murray and Caitríona Ó Dochartaigh (eds) *Sacred Histories. A Festschrift for Máire Herbert* (Dublin 2015) 22–55.

Barry Lewis:

Medieval Welsh Poems to Saints and Shrines, Medieval and Modern Welsh Series 14 (Dublin 2015).

'La frontière dans les œuvres des poètes gallois du bas Moyen Âge', in Hélène Bouget and Magali Coumert (eds), *Histoires des Breagnes 5: En marge* (Brest 2015) 227–43.

Review of Proinsias Mac Cana, *The Cult of the Sacred Centre: Essays on Celtic Ideology* (Dublin 2011) in *Llên Cymru* 37 (2015) 99–103.

Aoibheann Nic Dhonnchadha:

Accepted for publication: 'The Medical Transcripts in Dublin City Library MS Gilbert 147' (*Éigse*).

Brian Ó Curnáin:

Accepted for publication: '153. Irish', in Peter O. Müller et al. (eds) *HSK 40.4 Word-Formation: An International Handbook of the Languages of Europe*. 'Cróineolaíocht na Gaeilge Iarthraidisiúnta i gConamara, 1950–2004'; 'Cúig Phaidir as an gCaisleán Gearr agus Eanach Dhúin'; 'Amhrán faoin bPortach as Carna'. (*Éigse*). (with C. Ó Giollagáin) 'An Taisce Ghaelach and An Tasgaidh Gháidhealach: Socio-ethnographic Retrieval for the Gaelic Languages' in Macleod, M., Carty, N. and Smith-Christmas, C. (eds) *Gaelic in Contemporary Scotland: the Sociolinguistics of an Endangered Language* (Edinburgh University Press). (with C. Ó Giollagáin) 'Beartas Úr na nGael in am an ghátair' in Ó Giollagáin agus Ó Curnáin (eds) *Beartas Úr na nGael* (Indreabhán). (ed. with C. Ó Giollagáin) *Beartas Úr na nGael* (Indreabhán).

Gordon Ó Riain:

'Táinig an tráth nóna: Old Age in Classical Irish Religious Verse' in C. Breatnach & M. Ní Úrdail (ed.), *Aon don Éigse: Essays Marking Osborn Bergin's Centenary Lecture on Bardic Poetry (1912)* (Dublin 2015) 155–91.

Accepted for publication: 'Observations on the Citations in IGT V', (*Celtica*)

Sile Ní Mhurchú:

'An Ghaeilge faoi Chló is faoi Chaibidil sa Naoú Céad Déag: Bláithfhleasg na Milseán', *Tipperary Historical Journal / Irisleabhar Staire Thiobraid Árann* (2015) 137–62.

Reviews: Téanam go Min Aird - Lís Ní Shúilleabháin, Scéal na Gaelainne ina dúthaigh féin agus tuairisc bheathaisnéiseach le Roibeard Ó Cathasaigh (eag.), *Béascna* 9 (2015) 167–71.

Ré Órga na nGael: Joseph Cooper Walker (1761–1810) le Lesa Ní Mhunchaile, *Feasta* (July 2015) 10–11.

An Irish-speaking Island: State, Religion, Community, and the Linguistic Landscape in Ireland, 1770–1870 by Nicholas M. Wolf, *Studia Celtica Fennica* 12 (2015), pp. 90–8.

Mícheál Hoyne

'Imtheacht an Dá Nónmhar agus Tóraigheacht Taise Taoibhghile: an Early Modern Irish Exemplary Tale' (*Ériu* 65).

Accepted for publication: 'Structural Ambiguity and Resumptive Pronouns: the Pragmatics of the Transitive 'Direct' and 'Indirect' Relatives in Modern Irish' (*The Journal of Celtic Linguistics* 16).

'Bardic Poetry, Irish' in *The Encyclopedia of Medieval British Literature*, ed. H. Fulton, S. Echard and R. Rouse (Wiley-Blackwell).

'Stressed Monosyllables Ending in a Short Vowel in Classical Modern Irish' (*Celtica* 28).

'Why Resumption? Resumptive Pronouns in Prepositional Relative Clauses in Irish' in *Referential Properties and Their Impact on the Syntax of the Insular Celtic Languages*, ed. E. Poppe, K. Stueber, P. Widmer (Nodus).

OTHER ACTIVITIES AND ACHIEVEMENTS

Aoibheann Nic Dhonnchadha participated in a film for 'Léirithe' 15 April 2015, which was concerned with RIA MS 23 P 10 ii ('Book of the O'Lees').

Brian Ó Curnáin gave a number of interviews to Raidió na Gaeltachta, TG4 and RTÉ on Irish language policy.

Gordon Ó Riain taught a module entitled 'Léamh agus scríobh na Gaeilge' to second year undergraduates in Modern Irish at the School of Irish, Celtic Studies and Folklore, University College Dublin (September–December 2015).

Mícheál Hoyne participated in several radio discussions on Irish literature, including a discussion of the ISOS project, on Raidió na Life. His PhD thesis was awarded the Ferguson Memorial Prize 2014/15 by Trinity College Dublin.

Mona Jakob was tutor for Old Irish, teaching once a week through Modern Irish, at Maynooth University, from February to May.

Scoil an Léinn Cheiltigh (ar leanúint)

Aoibheann Nic Dhonnchadha:

Le foilsiú: 'The Medical Transcripts in Dublin City Library MS Gilbert 147' (Éigse).

Brian Ó Curnáin:

Le foilsiú: '153. Irish', in Peter O. Müller et al. (eds) *HSK 40.4 Word-Formation: An International Handbook of the Languages of Europe*. 'Cróineolaíocht na Gaeilge Iarthraidisiúnta i gConamara, 1950-2004'; 'Cúig Phaidir as an gCaisleán Gearr agus Eanach Dhúin'; 'Amhrán faoin bPortach as Carna'. (Éigse). (le C. Ó Giollagáin) 'An Taisce Ghaelach and An Tasgaidh Ghàidhealach: Socio-ethnographic Retrieval for the Gaelic Languages' in Macleod, M., Carty, N. and Smith-Christmas, C. (eds) *Gaelic in Contemporary Scotland: the Sociolinguistics of an Endangered Language* (Edinburgh University Press). (le C. Ó Giollagáin) 'Beartas Úr na nGael in am an ghátair' in Ó Giollagáin agus Ó Curnáin (eag.) *Beartas Úr na nGael* (Indreabhán). (eag. le C. Ó Giollagáin) *Beartas Úr na nGael* (Indreabhán).

Gordon Ó Riain:

'Táinig an tráth nóna: Old Age in Classical Irish Religious Verse' in C. Breatnach & M. Ní Úrdail (ed.), *Aon don Éigse: Essays Marking Osborn Bergin's Centenary Lecture on Bardic Poetry (1912)* (Dublin 2015) 155–91.

Le foilsiú: 'Observations on the Citations in IGT V', (*Celtica*)

Síle Ní Mhurchú:

'An Ghaeilge faoi Chló is faoi Chaibidil sa Naoú Céad Déag: *Bláithfhleasg na Milseán*', *Tipperary Historical Journal / Irisleabhar Staire Thiobraid Árann* (2015) 137–62.

Léirmheasanna: Téanam go Min Aird - Lís Ní Shúilleabháin, Scéal na Gaelainne ina dúthaigh féin agus tuairisc bheathaisnéiseach le Roibeard Ó Cathasaigh (eag.), *Béascna 9* (2015) 167–71.

Ré Órga na nGael: Joseph Cooper Walker (1761–1810) le Lesa Ní Mhunchaile, *Feasta* (Iúil 2015) 10–11.

An Irish-speaking Island: State, Religion, Community, and the Linguistic Landscape in Ireland, 1770–1870 le Nicholas M. Wolf, *Studia Celtica Fennica* 12 (2015) 90–8.

Mícheál Hoyne

'Imtheacht an Dá Nónmhar agus Tóraigheacht Taise Taoibhghile: an Early Modern Irish Exemplary Tale' (Ériu 65).



Celtic Studies Statutory Public Lecture 2015.

Léacht Reachtúil Phoiblí Scoil an Léinn Cheiltigh 2015.

Le foilsiú: 'Structural Ambiguity and Resumptive Pronouns: the Pragmatics of the Transitive 'Direct' and 'Indirect' Relatives in Modern Irish' (*The Journal of Celtic Linguistics* 16).

'Bardic Poetry, Irish' in *The Encyclopedia of Medieval British Literature*, ed. H. Fulton, S. Echard and R. Rouse (Wiley-Blackwell).

'Stressed Monosyllables Ending in a Short Vowel in Classical Modern Irish' (*Celtica* 28).

'Why Resumption? Resumptive Pronouns in Prepositional Relative Clauses in Irish' in *Referential Properties and Their Impact on the Syntax of the Insular Celtic Languages*, ed. E. Poppe, K. Stueber, P. Widmer (Nodus).

GNÍOMHAÍOCHTAÍ EILE

Ghlac Aoibheann Nic Dhonnchadha páirt i scannán i gcomhair 'Léirithe', 15ú Aibreán 2015, ar LS ARÉ 23 P 10 ii ('Leabhar Mhuintir Laidhe').

Cuireadh roinnt agallamh ar Bhrian Ó Curnáin ar Raidió na Gaeltachta, TG4 agus RTÉ ar pholasaí teanga.

Thug Gordon Ó Riain cúrsa dar teideal 'Léamh agus scríobh na Gaeilge' do mhic léinn sa dara bliain i Scoil na Gaeilge, COBÁC (Meán Fómhair go Nollaig 2015).

Ghlac Mícheál Hoyne páirt i roinnt clár raidió ar litríocht na Gaeilge, ina measc plé ar thionscnamh Meamram Páipéar Ríomhaire (ISOS), ar Raidió na Life. Ghnóthaigh a thráchtas PhD Duais Cuimhneachán Ferguson 2014/15 i gColáiste na Tríonóide.

Bhí Mona Jakob ina teagascóir Sean-Ghaeilge, ag múineadh uair in aghaidh na seachtaine trí mheán na Gaeilge in Ollscoil Mhá Nuad, ó mhí na Feabhra go Bealtaine.

School of Cosmic Physics

The major change during the year was the arrival of the new Head of Geophysics, Professor Chris Bean, who took up office in June. He brought with him from UCD a number of students as well as a pool of geophysical equipment leading to a further expansion of the Geophysical section. This necessitated some refurbishment and adaptation of existing accommodation in 5 Merrion Square. His inaugural lecture entitled “In the shadow of an active volcano: why is eruption prediction so difficult?” was delivered in the Royal Irish Academy on 21st October.

In research the school continued to be very active in its two broad areas of research, Astrophysics and Geophysics. A major highlight of the astrophysics research was the discovery by the HESS collaboration, of which DIAS is a member, of evidence for the acceleration of protons to PeV energies in the centre of our Galaxy. This is the first time that a specific astronomical site in our Galaxy has been linked to particle acceleration to these energies and has important implications for the origin of cosmic rays as well as, potentially, the high-energy neutrinos reported by the ice cube experiment.

The other main area of astrophysical study concerned the formation of stars and planets. This has become a hot topic with the explosion in discoveries of planets around stars other than our own sun and the availability of observations of unprecedented accuracy and resolution with new instruments such as ALMA, the Atacama Large Millimeter/submillimeter Array, and the next generation of instruments such as GRAVITY and SPHERE on optical telescopes.

In addition to ground based observations, space observations are crucial to modern astronomy and the section is involved in several missions through Ireland’s membership of the European Space Agency. A major effort by the star formation group involves preparatory work for NASA’s James Webb Space Telescope (JWST), the next major space observatory working in the near infra-red and the successor to the Hubble space telescope. Tom Ray is a co-principal investigator on MIRI, the mid-infrared instrument, one of the major European contributions to the mission. Having provided some of the filters and participated in the test campaigns, the focus is now on the writing of software for the analysis of JWST data. Felix Aharonian is one of the three European scientists supported by the European Space Agency to work on the Japanese X-ray satellite mission Hitomi (formerly Astro-H) which unfortunately suffered a serious malfunction soon after launch in 2016. Luke Drury continued as chair of ESA’s Astronomy Working Group, one of the main advisory bodies for the mandatory science programme.



Prof. Chris Bean presenting his Inaugural Lecture, Royal Irish Academy, October 2015.

An tOll Chris Bean ag tabhairt léacht tionscnaimh in Acadamh Ríoga na hÉireann, (Deireadh Fómhair).

In studying the internal structure of the Earth the Geophysics section relies on the classical tools of seismology and the variations in the gravitational field supplemented by electromagnetic methods and theoretical geodynamic modelling. A major research outcome was the development of a new reference frame for the absolute motions of tectonic plates developed by Sergei Lebedev in collaboration with international colleagues. While the relative motions of tectonic plates are well determined, this global solution integrates all the observations, particularly of spreading at midoceanic ridges as revealed by seismic anisotropy measurements. In another global study Zdenek Martinec, in work supported by the Earth observation programme of the European Space Agency, has developed new methods to use satellite magnetic field data to study ocean circulation currents.

More locally geophysical methods, in particular electromagnetic surveys, have been used in the SFI-funded IREThERM project to study the potential of geothermal energy in Ireland. This project, initiated by Alan Jones and continued by Volker Rath, is now close to completion and has added considerably to our knowledge of warm springs in the Leinster region. While these appear to be associated with the Iapetus suture line their origin still remains mysterious.

Full details of the many other research projects carried out in both Astrophysics and Geophysics, as well as detailed references, can be found in the School’s research report available on the Institute’s web site.

Scoil na Fisice Cosmaí

Ba é an príomhathrú i rith na bliana teacht Cheann nua na Geoifisice, an tOllamh Chris Bean, a tháinig isteach in oifig i mí an Mheithimh. Thóg sé roinnt mac léinn leis ón gColáiste Ollscoile, Baile Átha Cliath, chomh maith le cnuasach de threallamh geoifisice a rinne leathnú ar rannóg na Geoifisice dá bharr. Mar thoradh air seo, bhí gá le roinnt athchóirithe agus oiriúnaithe ar an gcóiríocht a bhí ann cheana in uimhir 5 Cearnóg Mhuirfean. Tugadh a léacht tionscnaimh dar teideal “In the shadow of an active volcano: why is eruption prediction so difficult?” in Acadamh Ríoga na hÉireann an 21 Deireadh Fómhair.

Maidir le taighde, lean an scoil de bheith an-ghníomhach ina dá réimse leathan de thaighde, Réaltfhisic agus Geoifisic. Buaicphointe mhór den taighde réaltfhisice ab ea aimsiú fianaise ag na gcomhar HESS, a bhfuil DIAS ina bhall de, i dtaca le luasghéarú prótón chuig fuinnimh PeV i lár ár Réaltra. Seo í an chéad uair gur nascadh suíomh réalteolaíoch ar leith inár Réaltra le luasghéarú cáithníní leis na fuinnimh seo agus tá impleachtaí tábhachtacha ann d’fhoinsé gathanna cosmacha chomh maith, b’fhéidir, leis na neoidrionó ardfhuinnimh a tuairiscíodh ag an turgnamh ciúb oighir.

Bhain an phríomhréimse eile de staidéar réaltfhisice le foirmiú na réaltaí agus na bplainéad. Tá an-phlé ar an topaic seo le déanaí leis an méadú in aimsiú na bplainéad mórthimpeall ar réaltaí eile seachas ár ngrian féin agus an fháil ar bhreathnuithe ar chruinneas agus gléine nach raibh a leithéid ann roimhe le hionstraimí nua amhail ALMA, (Atacama Large Millimeter/submillimeter Array), agus an chéad ghlúin eile d’ionstraimí amhail GRAVITY agus SPHERE ar theileascóip optúla.

Chomh maith le léamha ón talamh, tá léamha spáis fíor-riachtanach don réalteolaíocht nua-aimseartha agus tá an rannóg páirteach i roinnt misean trí bhallraíocht na hÉireann i nGníomhaireacht Spáis na hEorpa. Baineann mór-iarracht de chuid an ghrúpa foirmithe réalta le hobair ullmhúcháin do Theileascóp Spáis James Webb de chuid NASA (JWST), an chéad mór- réadlann spáid eile ag obair sa neas-infridhearg agus an comharba ar theileascóp spáis Hubble. Is é Tom Ray an comh-phríomhthaighdeoir ar MIRI, an ionstraim lár-infridhearg, ceann de mhór-chodanna na hEorpa sa mhisean. Tar éis cuid de na scagairí a sholáthar agus páirt a ghalcadh sna feachtais trialacha, tá an fócas anois ar bhogearraí a scríobh don anailís ar shonraí JWST. Tá Felix Aharonian ar cheann den triúr eolaí Eorpach a fuair tacaíocht ó Gníomhaireacht Spáis na hEorpa chun obair ar an misean satailíte X-gha Seapánach Hitomi (Astro-H mar a bhí) ar tharla mífeidhm thromchúiseach dó go gairid i ndiaidh an lainse in 2016.

Lean Luke Drury mar chathaoir ar Ghrúpa Oibre Gníomhaireacht Spáis na hEorpa, ceann de na príomhchomhlachtaí comhairle don chlár éigeantach spáis.



The HESS array of imaging atmospheric Cherenkov telescopes in Namibia.

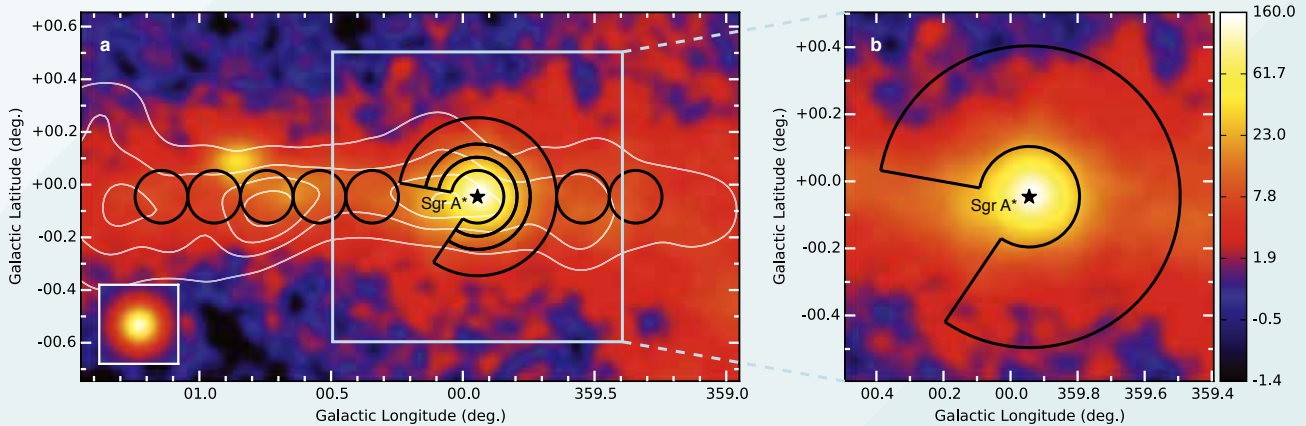
Eagar HESS de theileascóip íomháithe atmaisféara Cherenkov sa Namaib.

Agus staidéar á dhéanamh ar struchtúr inmheánach an Domhain braitheann rannóg na Geoifisice ar ionstraimí clasaiceacha na seismolaíochta agus na hathruithe sa réimse imtharraingteach forlíonta le modhanna leictreamaighnéadacha agus samhlú geoidinimiciúil teoiriciúil. Mór-thoradh taighde ab ea creat tagartha nua a fhorbairt do dearbhghluaiseachtaí plátaí teicteonacha a d’fhorbair Sergei Lebedev i gcomhar le comhghleacaithe idirnáisiúnta. Cé go bhfuil gluaiseachtaí coibhneasta phlátaí teicteonacha cinntithe go maith, comháthaíonn an réiteach domhanda seo na léamha uile, go háirithe ar leathnú ag dromanna aigéin láir mar a nochtáíodh ag tomhais ainiseatrópachta seismeacha. I staidéar domhanda eile, in obair a fuair tacaíocht ó chlár léamh an Domhain de chuid Gníomhaireacht Spáis na hEorpa, tá modhanna nua forbartha ag Zdenek Martinec chun sonraí réimse maighnéadaí satailíte a úsáid chun staidéar a dhéanamh ar shruthanna cúrsaíochta aigéin.

Baineadh úsáid as modhanna geoifisice níos áitiúla, go háirithe suirbhéanna leictreamaighnéadacha, sa togra RETHERM maoinithe ag ISFI chun staidéar a dhéanamh ar fhéidearthachtaí an fhuinnimh gheoiteirmigh in Éirinn. Tá an togra seo, a tionscnaíodh ag Alan Jones agus a lean Volker Rath leis, ag druidim le críoch agus chuir sé go mór lenár dtuiscint ar uiscigh the i réigiún Laighean. Cé gur cosúil go mbaineann siad seo leis an líne uaimhe laipitéise ní fios fós cén fhoinsé atá leo.

Is féidir sonraí iomlána i dtaca leis an líon mór de thograí taighde eile a rinneadh sa Réaltfhisic agus sa Gheoifisic freisin, chomh maith le tagairtí mionsonraithe, a fháil ar thuairisc taighde na Scoile atá ar fáil ar shuíomh gréasáin na hInstitiúide.

School of Cosmic Physics (continued)



HESS observations of the Galactic centre in high-energy gamma-rays.

Léamha HESS ar lár an Réaltra i ngáma-ghathanna ardhuinnimh.

In addition to its own research work, the School also collaborates extensively with the local universities and enriches their teaching activities, both by offering specialist training to graduate students and contributing guest lecturing where appropriate. It is also a partner in several large collaborations, most notably the iCRAAG consortium led by UCD (Irish Centre for Research in Applied Geosciences) and the iLOFAR consortium led by TCD which seeks to establish an Irish base station for the European radio astronomy LOFAR project. Luke Drury accepted the invitation from UCD to act as chair of a major e-infrastructure project funded under Horizon 2020, the E-CAM centre of excellence in computational simulation, which was formally launched in the Royal Irish Academy in October. The school operates the Irish National Seismic Network as a national service and also hosts the National Data Centre for the Comprehensive Nuclear Test Ban Treaty Organisation (CTBTO).

In the area of public outreach the Astrophysics section has considerably expanded its programme of activities in Dunsink Observatory which now attract several thousand visitors per year. The Geophysics section continued the very successful seismology in schools programme and participated as in previous years with the Geological Survey of Ireland's stand at the annual Young Scientist and Technologist Exhibition.

The statutory public lecture of the School was given by Prof Mike Cruise from the University of Birmingham in the new DCU St Patrick's campus (by agreement with UCD). The lecture, entitled "One hundred years of Einstein's gravity, but where are the waves" was delivered exactly one hundred years to the day since Einstein's announcement of the final form of the field equation of general relativity. The answer to the rhetorical

question in the title came of course early in 2016 with the announcement of the first direct detection of gravitational waves by the LIGO consortium! A highlight of the event was the first public display in Dublin of the restored Grubb coelostat used by Eddington to verify Einstein's prediction of the gravitational deflection of light by the sun. This instrument, originally manufactured in Dublin, has recently been identified by Tom Ray.



Prof. Drury, Prof. Mike Cruise and Cecil Keaveney, Registrar on the occasion of Prof. Cruise giving a lecture to mark the 75th Anniversary of the foundation of DIAS at St. Patrick's College, November 2015.

An tOll Drury, An tOll Mike Cruise agus Cecil Keaveney (Cláraitheoir) ag léacht a thug an tOll Mike Cruise i gColáiste Phádraig i mí na Samhna, ag ócáid ag ceiliúradh 75 bliain ó bunadh na hInstitiúide.

Scoil na Fisice Cosmaí (ar leanúint)



The ALMA array of radio telescopes in Chile.

Eagar ALMA de theileascóip raidió sa tSile.

Chomh maith lena hobair taighe féin, comhoibríonn an Scoil go forleathan leis na hollscoileanna áitiúla agus saibhríonn a ngníomhaíochtaí teagaisc, trí oiliúint speisialta a thairiscint do mhic léinn iarchéime agus trí aoi-léachtóireacht a dhéanamh más cuí. Is comhpáirtí í i roinnt comhoibriú mór, an ceann is suntasaí an cuibhreannas iCRAG faoi cheannas an Choláiste Ollscoile, Baile Átha Cliath (Lárionad na hÉireann um Thaighde sna Geo-eolaíochtaí Feidhmeacha) agus cuibhreannas iLOFAR faoi cheannas Choláiste na Tríonóide, Baile Átha Cliath a fhéachann le bonn-stáisiún a bhunú do togra réalteolaíochta raidió Eorpach LOFAR. Glac Luke Drury leis an gcuireadh ón gColáiste Ollscoile, Baile Átha Cliath gníomhú mar chathaoirleach ar mhór-thogra ríomh-infreastruchtúir maoinithe faoi Horizon 2020, lárionad feabhais E-CAM um ríomhshamhlú, a seoladh go foirmiúil in Acadamh Ríoga na hÉireann i mí Dheireadh Fómhair. Oibríonn an scoil Lónra Seismeach Náisiúnta na hÉireann mar sheirbhís náisiúnta agus tá sí mar óstach freisin ar Eagraíocht an Chonartha um Chosc Cuimsitheach ar Thrialacha (CTBTO).

I réimse na for-rochtana poiblí rinne rannóg na Réaltfhisice leathnú suntasach ar a clár gníomhaíochtaí i Réadlann Dhún Sinche a mheallann na mílte cuairteoirí i aghaidh na bliaina anois. Lean rannóg na Geoifisice den chlár an-rathúil um seismeaíocht i scoileanna agus ghlac páirt, mar a rinne i mblianta roimhe sin, i seastán Chumann Geolaíochta na hÉireann ag Taispeántas bliantúil na nEolaithe Óga.

Is é an tOllamh Mike Cruise ó Ollscoil Birmingham a thug an léacht reachtúil ar champas nua Choláiste Phádraig - Ollscoil Chathair Bhaile Átha Cliath (le comhoantú leis an gColáiste Ollscoile, Baile Átha Cliath). Tugadh an léacht, dar teideal “One hundred years of Einstein’s gravity, but where are the waves” cothrom céad bliain go díreach ón lá a rinneadh fógra Einstein i dtaca leis an bhfoirm deiridh de chothromóid réimse na coibhneasachta ginearálta. Ar ndóigh, tháinig an freagra ar

an gceist reitriciúil go luath sa bhliain 2016 nuair a fógraíodh an chéad aimsiú díreach de thonnta imtharraingteacha ag cuibhreannas LIGO! Buaicphointe den ócáid ab ea an chéad taispeántas poiblí i mBaile Átha Cliath den céileastat Grubb athchóirithe a d’úsáid Eddington chun tuar Einstein a dhearbhú i dtaca le sraonadh imtharraingteach solais ag an ngrian. Tá an ionstraim seo, a rinneadh ar dtús i mBaile Átha Cliath, aitheanta le déanaí ag Tom Ray.



ALMA observations of the young star HL Tau reveal rings and gaps in the disc of gas and dust surrounding the star that indicate ongoing planet formation.

Léiríonn léamha ALMA den réalta óg HL fáinní agu bearnaí sa dhiosca de ghás agus deannach atá timpeall na réalta a léiríonn foirmiú plainéid.

Astronomy and Astrophysics

Peer-reviewed Publications in 2015

1. A. Abramowski et al. "Constraints on an Annihilation Signal from a Core of Constant Dark Matter Density around the Milky Way Center with H.E.S.S." In: *Physical Review Letters* 114.8, 081301 (Feb. 2015), p. 081301. DOI: 10.1103/PhysRevLett.114.081301. arXiv: 1502.03244 [astro-ph.HE].
2. A. Abramowski et al. "The 2012 Flare of PG 1553+113 Seen with H.E.S.S. and Fermi-LAT". In: *ApJ* 802, 65 (Mar. 2015), p. 65. DOI: 10.1088/0004-637X/802/1/65. arXiv: 1501.05087 [astro-ph.HE].
3. P. Bordas et al. "Detection of Persistent Gamma-Ray Emission Toward SS433/W50". In: *ApJ* 807, L8 (July 2015), p. L8. DOI: 10.1088/2041-8205/807/1/L8. arXiv: 1411.7413 [astro-ph.HE] (cit. on p. 10).
4. P. Bouchet et al. "The Mid-Infrared Instrument for the James Webb Space Telescope, III: MIRIM, The MIRI Image". In: *PASP* 127 (July 2015), pp. 612–622. DOI: 10.1086/682254. arXiv: 1508.02488 [astro-ph.IM].
5. G. A. Caliendo et al. "Gamma-Ray Flare Activity from PSR B1259-63 during 2014 Periastron Passage and Comparison to Its 2010 Passage". In: *ApJ* 811, 68 (Sept. 2015), p. 68. DOI: 10.1088/0004-637X/811/1/68. arXiv: 1509.02856 [astro-ph.HE] (cit. on p. 10).
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Geophysics

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Theses

Duygu Kiyan: Multidimensional Magnetotelluric imaging of crustal and uppermost mantle structures of the Atlas Mountains of Morocco, NUIG, April 2015.

Invited Presentations

Schaeffer, A.J., **S. Lebedev**. Seismic Tomography of the Arctic Lithosphere and Asthenosphere. Invited Talk (15 April), EGU2015-2819, European Geosciences Union General Assembly 2015, Vienna, Austria, 12-17 April 2015.

Lebedev, S., Lithosphere, Asthenosphere, and Their Boundary: Some Insights from Global Waveform Tomography. Invited Keynote Talk (9 June), The 2015 Colloquium of the project SAMPLE: South Atlantic Margin Processes and Links with onshore Evolution, Monschau, Germany, 9-12 June, 2015.

Lebedev, S., **A.J. Schaeffer**, **J. Fullea**, V. Pease, Thermal structure and evolution of the Arctic lithosphere: Insights from seismic tomography and thermodynamic modelling. Invited talk (1 October) at: 3P Arctic: Polar Petroleum Potential Conference & Exhibition, Stavanger, Norway, 29 September – 2 October, 2015.

Fullea, J., The mantle contribution to the Earth's surface topography: thermochemical structure, strength and dynamic. Invited Talk (5 October), Annual TOPO-EUROPE workshop, Antibes (France), Oct 4-7, 2015.

Becker, T.W., **A.J. Schaeffer**, **S. Lebedev**, C.P. Conrad, Implications of a comprehensive, spreading-aligned plate motion reference frame in light of seismic anisotropy and global trench migration. Invited Talk (14 December), D113C-01. American Geophysical Union Fall Meeting, San Francisco, December 14-18, 2015.

Lecturing

The course on 'Geodesy and Height' was organised by DIT on February 2015. Prof Martinec gave a 2-day lecture course on Gravity and Geoid.

School of Theoretical Physics

This past year proved more interesting concerning quantum information rather than particle physics. We don't know yet whether the LHC will tell us anything beyond the standard model. Hints of non-gravitational interactions of dark matter are even less compelling. Thus quantum information had a proportionally greater importance in our activities than in previous years.

Supergravity and superstring theory remained important, however.

Transmission of quantum information through noisy channels was studied by Tony Dorlas together with his former student Ciara Morgan. There is a critical rate below which small error rates of decoding can in principle be made arbitrarily small. Ciara and Tony analysed what happens if one tries to transmit information at a faster rate. They investigated the possibility of limiting the error rate to a fixed fraction. This showed that for a large class of quantum channels (with Markovian memory properties) this is not possible.

With collaborators from Aalborg and Lausanne, Baptiste Savoie modelled the optical properties of carbon nanotubes. They derived a general formula for the dynamical optical conductivity, when an incident light beam is applied along the longitudinal direction.

In the drive towards quantum computation, interest is now strongly concentrated on Majorana edge states. To calculate the stability of such states one has to understand their microscopic description. Graham Kells found that the multi-particle content of the Majorana zero-mode operators is significant, even at modest interaction strengths. This differs from previous work and should affect how certain experimental features are interpreted.

In spite of the hitherto disappointing results from LHC, supergravity and superstring theory still seem essential for our understanding of nature.

With Veselin Filev, Denjoe O'Connor studied a lattice version of the quantum mechanical BFFS model, which is supposed to capture the entire dynamics of M-theory. They found that the low energy regime is surprisingly well approximated by free bosons of a certain mass. For the bosonic part, lattice calculations are known to be reliable, but when one includes fermions severe sign problems are possible. Veselin and Denjoe found, however, that in this particular model only phases close to one do contribute, so that the sign problem is unimportant. One obtains a gravity description which supports AdS/CFT duality. Veselin and Denjoe also introduced D0 and D4 branes into the model. In the deconfined phase of the theory they again found strong support for the duality.

In the confined phase there are problems that seem to be due to D4 brane dynamics.



Prof. Werner Nahm (DIAS), Lecture "Celts in the Cosmos" December 2015.

An tOll. Werner Nahm (DIAS), ag tabhairt léacht dár teideal "Celts in the Cosmos" Nollaig 2015.

Together with collaborators from Imperial College London and Lisbon, Leron Borsten continued his studies of the relationship between super Yang-Mills theory and supergravity. They found that the U-duality of the supergravity theory reflects the Freudenthal-Rosenfeld-Tits magic square, which was studied in several mathematical papers in the 1950's and 1960's.

Yuhma Asano from Denjoe O'Connor's group continued his study of the chaotic dynamics of classical strings in AdS space, with colleagues from Kyoto University. They showed that chaos persists even near the Penrose limit, when the string's angular momentum is large and the effective geometry is close to flat space.

W. Nahm organised a meeting of linguists, archaeologists and palaeogeneticists in Mainz and did work which overlaps with the other schools of DIAS. In the domain of Celtic languages, there is currently great interest surrounding the linguistic affiliation of the language used in the Tartessian hinterland in the earlier 1st millennium BC. If work by J. Koch from Aberystwyth is correct, this is by far the earliest Celtic language attested in writing. Following his lead, Nahm was able to translate two unconventional texts, one of which contains reports of a burial at sea. This gives strong support for the Celtic nature of the language. Nahm was requested to write an article about his results in *Zeitschrift für Celtische Philologie*.

In a follow-up to earlier work honoured by the RIA, Nahm organised a conference in Lille with the assyriologist D. Lacambre. As a consequence, it seems that a consensus in the dating of Mesopotamian history in the 2nd millennium BC is emerging. This establishes a link between science and history in understanding the reactions of Mesopotamian and Egyptian societies to climate change. In particular, an unexpected link between early Hittites and developments in northern Mesopotamia was found by Lacambre and Nahm and published in a prestigious assyriological journal.

Scoil na Fisice Teoiriciúla

Bhí an bhliain seo a chuaigh thart níos suimiúla i dtaca le faisnéis chandamach ná mar a bhí i dtaca leis an bhfisic cháithníní. Níl a fhios againn fós an ndéarfadh an LHC rud ar bith linn taobh amuigh den tsamhail chaighdeánach. Is laige fós leideanna d'idirghníomhaíochtaí neamh-imtharraingteacha de dhamhna dorcha. Mar sin bhí tábhacht níos mó ag faisnéis chandamach inár ngníomhaíochtaí ná mar a bhí i mblianta roimhe.

Leanadh de thábhacht na sárímtharraingteachta agus teorice na sártheagrán, áfach.

In éineacht lena iar-mhac léinn Ciara Morgan, rinne Tony Dorlas staidéar ar fhaisnéis chandamach a tharchur trí chainéil thorannacha. Tá ráta criticiúil ann gur féidir rátaí earráide beaga de dhíchódú a dhéanamh beag go treallach, i bprionsabal. Rinne Ciara agus Tony anailís ar a dtarlaíonn má dhéantar iarracht faisnéise a tharchur ag ráta níos tapúla. An féidir, ar a laghad, an ráta earráide a theorannú go codán socraithe? Léirigh siad, do réimse mór de chainéil chandamacha (le hairíonna cuimhne Markovian) nach bhfuil sé seo indéanta.

In éineacht le comhoibrithe ó Aalborg agus Lausanne, rinne Baptiste Savoie samhlú ar airíonna nana-fheadán carbóin. Dhíorthaigh siad foirmle ghinearálta don tseoltacht optúil dhinimiciúil, nuair a chuirtear léas solais teagmhais i bhfeidhm thar an bhfad-treo.

San obair i dtreo na ríomhaireachta candamaí, tá an tsuim dírithe go láidir anois ar riochtaí imill Majorana. Chun socracht riochtaí den sórt sin a ríomh, ní mór a gcur síos micreascópach a thuiscint. Fuair Graham Kells amach go bhfuil inneachar ilcháithníní na n-oibreoirí modh-niallais Majorana suntasach fiú ag láidreachtaí idirghníomhaíochtaí measartha. Tá sé seo difriúil ó shaothar roimhe agus ba chóir go rachadh sé i gcionn ar an gcaoi ina léirmhíneítear airíonna áirithe turgnaimh.

D'ainneoin na dtorthaí ón LHC atá ina gcúis díomá go dtí seo, is cosúil sárímtharraingteacht agus teorice na sártheagrán riachtanach fós d'ár dtuiscint ar an nádúr. In éineacht le Veselin Filev, rinne Denjoe O'Connor staidéar ar leagan laitíse den tsamhail mheicniúil chandamach BFFS, atá in ainm agus a bheith ag gabháil na ndinimicí iomlána de M-theoiric. Fuair siad amach go ndéantar an réimeas ísealfhuinnimh a léiriú go maith ag bósóin shaora de mhais áirithe. Don chuid bhósónach, is eol go bhfuil ríomhanna laitíse iontaoifa, ach nuair a áirítear fermióin féadfar fadhbanna comhartha tromchúiseacha a bheith ann. Fuair Veselin agus Denjoe amach, áfach, sa tsamhail ar leith seo nach dtéann i gcionn ach pasanna cóngarach d'aon, agus dá bhrí sin níl tábhacht le fadhb an chomhartha. Faightear cur síos imtharraingteachta a thacaíonn le déacht AdS/CFT.

Thug Veselin agus Denjoe isteach bráinní D0 agus D4 isteach sa tsamhail. Sa phas dítheoranta den teorice arís d'aimsigh siad tacaíocht láidir don déacht. Sa phas teoranta tá fadhbanna ann, mar thoradh ar dhinimicí bráinne D4, is cosúil.

In éineacht le comhoibrithe ó Imperial College London agus Liospóin, lean Leron Borsten dá staidéar ar an ngaol idir sár-theoiric Yang-Mills agus sárímtharraingteacht. Fuair siad amach go léiríonn U-dhéacht na teorice sárímtharraingteachta an chearnóg draíochta Freudenthal-Rosenfeld-Tits, ar a rinneadh staidéar i roinnt páipéar matamaitice sna 1950í agus 1960í. Beidh sé suimiúil a fháil amach cén toradh a bheidh orthu seo.

Lean Yuhma Asano ó ghrúpa Denjoe O'Connor dá staidéar ar dhinimicí anordúla de theagrán chlasaiceacha i spás AdS, in éineacht le comhghleacaithe ó Ollscoil Kyoto. Léirigh siad go maireann an t-anord fiú i ngaireacht don teorann Penrose, nuair atá móiminteam uilleach an teagrán mór agus an gheoiméadracht éifeachtach i ngaireacht do spás réidh.

D'eagraigh W. Nahm cruinniú de theangeolaithe, seandálaithe agus pailéigéineolaithe i Mainz agus rinne obair atá ag teacht le scoileanna eile DIAS. I réimse na dteangacha Ceilteacha ceist a bhfuil an-spéis ann faoi láthair is ea cleamhnú teangeolaíoch na teanga a úsáideadh sa chultúr Thartéiseach go uath sa chéad mhílaois BC. Má tá an saothar ag J. Koch ó Aberystwyth ceart, is í seo an teanga Cheilteach is luaithe le fada i scríbhinn atá dearbhaithe i scríbhinn. Ag leanúint a threorach, bhí Nahm ábalta dhá théacs neamhghnách a aistriú, a bhfuil tuairisc i gceann amháin go bhfuil duine éigin curtha san fharráige. Tugann sé seo tacaíocht láidir do nádúr Ceilteach na teanga. Iarradh ar Nahm alt a scríobh faoina thorthaí san iris Zeitschrift für celtische Philologie.

In athleanúint ar obair níos luaithe a fuair gradam ón RIA, d'eagraigh sé comhdháil i Lille leis an saineolaí ar an Aisiria D. Lacambre. Mar thoradh uirthi sin, is cosúil go bhfuiltear ag teacht ar chomhdhearcadh maidir le dáta stair na Measpatáime sa dara mílaois BC. Dá bhrí sin, féadfar an eolaíocht agus an stair a nascadh i dtuiscint ar fhreagraí shochaithe na Measpatáime agus na hÉigipte ar an athrú aeráide. Go háirithe, d'aimsigh Lacambre agus Nahm nasc nach rabhthas ag súil leis idir Hitigh luaithe agus forbairt i dtuaisceart na Measpatáime agus foilsíodh é in iris ghradamúil i dtaca leis an Aisiria.

PUBLICATIONS 2015

Papers published in refereed journals

1. **Kells, G.** (2015) "Multi-particle content of Majorana zero-modes in the interacting p-wave wire", *Phys. Rev. B* 92 155434.
2. **Kells, G.** (2015) "Many-body-Majoranas and the equivalence of parity sectors", *Phys. Rev. B* 92 081401 (R).
3. **Savoie, B.** (2015) "A rigorous proof of the Bohr–van Leeuwen theorem in the semiclassical limit", *Rev. Math. Phys.* 27 (08) 1550019.
4. **Borsten, L.,** and Duff, M. J. (2015) "Gravity as the square of Yang–Mills?", *Phys.Scripta* 90 108012.
5. **Borsten, L.,** Brádler, K. and Duff, M. J. (2015) "The structure of superqubit states", *Riv. Nuovo Cim.* 38 7-8, 371-386.
6. Navarro-Lerida, F. and **Tchrakian, D. H.** (2015) "Electrically charged finite energy solutions of an SO(5) and an SU(3) Higgs-Chern-Simons–Yang-Mills-Higgs systems in 3+1 dimensions", *Int. J. Mod. Phys. A* 30 15 1550079.
7. Brihaye, Y., Manvelyan, R., Radu, E. and **Tchrakian, D. H.** (2015) "Charged isotropic non-Abelian dyonic black branes", *Phys. Lett. B* 745 90-96.
8. **Tchrakian, D. H.** (2015) "Higgs and Skyrme-Chern-Simons densities in all dimensions", *J. Phys. A* 48 37 375401.
9. **Asano, Y.,** Kawai, D., Kyono H. and Yoshida, K. (2015) "Chaotic strings in a near Penrose limit of AdS \times T 1 ", *JHEP* 1508 060.
10. Lacambre, D. and **Nahm, W.** (2015) "Pithana, an Anatolian ruler in the time of Samsuiluna of Babylon: new data from Tell Rimah (Iraq)", *Revue d'Assyriologie et d'Archeologie Orientale* 109 17-28.
11. **Nahm, W.** (2015) "Five problematic eponyms in KEL G", *NABU* 29.

Papers published in conference proceedings and edited works

1. **O'Connor, D.** and **Filev, V.** (2015) "Membrane Matrix models and non-perturbative checks of gauge/gravity duality": Proceedings of the Corfu Summer Institute 2015, 1-27 Sept. 2015, Corfu, Greece. *Proceedings of Science* 111.

Preprints (unpublished articles)

1. **Dolan, B.** (2015) "The intrinsic curvature of thermodynamic potentials for black holes with critical points".
2. Anastasiou, A., **Borsten, L.**, Hughes, M. J. and Nagy, S. (2015) "Global symmetries of Yang-Mills squared in various dimensions".
3. **Asano, Y.**, Kawai, D., Kyono H. and Yoshida, K. (2015) "Chaotic strings in a near Penrose limit of AdS \times T 1 ".
4. **Kells, G.** (2015) "Multi-particle content of Majorana zero-modes in the interacting p-wave wire".
5. **Kovacs, S.**, Sato, Y. and Shimada, H. (2015) "On membrane interactions and a three-dimensional analog of Riemann surfaces".
6. **Kovacs, S.** (2015) "Bulk geometry from instanton calculus in marginal deformations of N=4 SYM".
7. O'Raiheartaigh, C., O'Keefe, M., **Nahm, W.** and Mitton, S. (2015) "Einstein's cosmology review of 1933: a new perspective on the Einstein-de Sitter model of the cosmos".
8. **Tchrakian, D. H.** (2015) "Higgs and Skyrme-Chern-Simons densities in all dimensions".
9. **Filev V. G.** and **O'Connor, D.** (2015) "The BFSS model on the lattice".
10. Rasmussen, M., Ricaud B. and **Savoie, B.** (2015) "On the optical properties of carbon nanotubes--Part I. A general formula for the dynamical optical conductivity".
11. Brihaye, Y., Manvelyan, R., Radu, E. and **Tchrakian, D. H.** (2015) "Charged isotropic non-Abelian dyonic black branes".
12. **Filev, V. G.** and **O'Connor, D.** (2015) "Charged isotropic non-Abelian dyonic black branes".

Administration and Finance

DIAS celebrated the 75th Anniversary of its foundation with a programme of commemorative lectures which took place in November. The keynote lecture was given by Professor Werner Nahm, Director of the School of Theoretical Physics, in the National Gallery. All of the lectures attracted a large public audience and received very positive feedback. The occasion was also marked with a visit by members of DIAS staff to Aras an Uachtaráin for a reception with the President.

A communications review was undertaken during the year with the help of an external specialist to identify ways in which external communications could be improved and developed. Arising from this a communications working group was established and it is working on implementing the recommendations arising from the review.

The DIAS Foundation has been officially designated as a charity and the Board of the Foundation is now in a position to engage with possible donors.

Whilst a new Senior Professor was appointed during the year, the staffing situation is still presenting ongoing challenges with a number of senior posts still vacant and efforts continued during the year to secure sanction to fill these posts.

Finance

From 1st January 2014, the Institute has elected to present its financial statements in accordance with FRS 102. The main impact of FRS 102 on the financial statements of the Institute relates to the holiday pay accrual. Under the previous standard the provision for holiday pay accruals were not recognised and holiday pay was charged to the statement of income and expenditure as it was paid.

Under FRS 102 employee benefits are required to be charged to the statement of income and expenditure as the employee service is received. This has resulted in the Institute recognising a liability for holiday pay of €203,864 as at 31 December 2014. (For a more detailed explanation, please refer to page 42 of the financial statements).

The attached financial statements report a profit of €133,325 for the year. This compares with a (Restated) Profit of €150,772 in the year to 31st December 2014. The reason for the profit in 2015 is due to the release of income in relation to completed projects.

This income figure is offset by an overspend on the non-pay to meet the increased costs for the outsourcing of cleaning services, the purchase of a replacement vehicle and costs for the DIAS 75th Anniversary events.

Total income for the Institute decreased from €9,156,446 in 2014 after adjusting for the transfer from the capital reserves to €8,583,048 in 2015.

This represents a decrease of €573,398 or 6.26% and the main decrease occurred in the "Net Deferred Funding for Retirement Benefits" figure.

Riarachán agus Airgeadas

Rinne DIAS ceiliúradh ar chomóradh 75 bliana ó bunaíodh í le clár de léachtaí comórtha a bhí ann i mí na Samhna. Is é an t-Ollamh Werner Nahm, Stiúrthóir ar Scoil na Fisice Teoiriciúla, a thug an t-eochairléacht sa Ghailearaí Náisiúnta. Mheall na léachtaí uile tinreamh poiblí mór agus fuarthas aiseolas an-dearfach ina leith. Rinneadh an ócáid a mharcáil freisin le cuairt ag baill d'fhoireann DIAS ar Áras an Uachtaráin d'fháiltiú leis an Uachtarán.

Rinneadh athbhreithniú cumarsáide le linn na bliana le cabhair ó speisialtóir seachtrach d'fhonn bealaí a aithint ina bhféadfaí cumarsáid sheachtrach a fheabhsú agus a fhorbairt. Ag eascairt as sin, bunaíodh grúpa oibre cumarsáide agus tá sé ag obair ar na moltaí ón athbhreithniú a chur i bhfeidhm.

Tá Fondúireacht DIAS ainmnithe go hoifigiúil mar charthanas agus na Bord na Fondúireachta anois ábalta dul i gcaidreamh le deontóirí féideartha.

Cé gur ceapadh Ollamh Sinsearach nua le linn na bliana, tá dúshlán leanúnacha ann mar thoradh ar an staid foirne, le roinnt post sinsearach fós folamh agus leanadh d'iarachtaí i rith na bliana cead a fháil chun na poist seo a líonadh.

Airgeadas

Ón 1 Eanáir 2014, chinn an Institiúid a ráitis airgeadais a chur i láthair i gcomhréir le FRS 102.

Baineann príomhfheidhm FRS 102 ar ráitis airgeadais na hInstitiúide le fabhrú phá saoire. Roimhe seo níor aithníodh soláthairtí d'fhabhruithe pá saoire agus gearradh pá saoire ar an ráiteas ioncain agus caiteachais de réir mar a íocadh é. Faoi FRS 102 éilítear go ngearrfaí sochair d'fhostaithe ar an ráiteas ioncain agus caiteachais de réir mar a fhaightear seirbhís an fhostaithe. Mar thoradh air seo, dáithin an Institiúid dliteanas as pá saoire €203,864 ag 31 Nollaig 2014. (Féach ar leathanach 64 de na ráitis airgeadais le haghaidh mionchuntas)

Tuairiscíonn na ráitis airgeadais iniata go raibh brabach €133,325 ann don bhliain. Tá sé seo í gcomparáid le brabach (athshonraithe) €150,772 sa bhliain go dtí an 31 Nollaig 2014. Is í an chúis leis an mbrabach sa bhliain 2015 ná an scaoileadh ioncain maidir le tionseadail críochnaithe. Fritháirítear an tsuim ioncain seo le róchaiteachas sa neamhphá chun na costais méadaithe a shásamh do sheachfhoinsiú seirbhísí glantacháin athsholáthar feithicile agus costais imeachtaí Comóradh 75 bliana DIAS.

Tar éis coigeartú d'aistriú ó na cúlchistí caipitil laghdaigh ioncam iomlán na hInstitiúide ó €9,156,446 i 2014 go €8,583,048 i 2015.

Léiríonn sé seo laghdú €573,398 nó 6.26% agus tharla an príomh laghdú i "Glanchistiú Iarchurtha Sochair Scoir."

Institute Staff

Council of the Institute

Chairman

V. Cunnane

Ex-Officio Members

A. Deeks, President, UCD

P. Prendergast, Provost, TCD

M. Daly, President, RIA

Members Appointed by the Governing Boards of Constituent Schools

G. Wrixon

A. Jaffe

A. Ahlqvist

W. Nahm

L. Breatnach

L. Drury

Governing Board of the School of Celtic Studies

Chairman

A. Ahlqvist

Senior Professor

L. Breatnach

Appointed Members

M. Ní Mhaonaigh

U. Mac Gearailt

R. Chapman Stacey

D. Stifter

M. Haycock

Governing Board of the School of Theoretical Physics

Chairman

A. Jaffe

Senior Professors

T. Dorlas

D. O'Connor

W. Nahm

Appointed Members

P. Knight

D. Zagier

A. Taormina

H. Braun

S. Ryan

Governing Board of the School of Cosmic Physics

Chairman

G. Wrixon

Senior Professors

L. Drury

C. Bean

Appointed Members

E. Meehan

A. Watson

J. Bell Burnell

K. Verbruggen

L. Maraschi

Administrative Staff of the Institute 2015

Registrar:

C. Keaveney

Finance Officer:

G. Forkin

Senior Administrative Officer:

M. Burke

Assistant Finance Officer:

R. Byrne

Clerks:

M. Loughman

H. Moynihan

E. Barrett

M. Brennan

Head of IT:

D. Grigoriev

Senior Systems Administrator:

J. Bucas

Systems Administrator:

P. Grange

Support Staff:

B. Judge (to 23 December)

P. McDonald

C. Doyle

K. Earley

P. Wynne

Staff and Scholars of the School of Celtic Studies 2015

Senior Professor

L. Breatnach (Director)

Professor

B. Lewis

Assistant Professors

A. Nic Dhonnchadha

M. O Riordan (Publications Officer)

Dialectologist

B. Ó Curnáin

Assistant Librarian

M. Irons

Library Assistant

Ó. Ní Chanainn

School Administrator

E. Nic Dhonncha

Technical Staff

ISOS

A. O'Brien

IT Support

A. McCarthy (part-time)

S. McCullagh (part-time)

Bibliographer

A. Guilarte

Bergin Fellow

G. Ó Riain (Ireland)

Institute Staff (continued)

Staff and Scholars of the School of Celtic Studies 2015 (continued)

Scholars

N. Volmering (Netherlands) (to 30 September)
M. Jakob (Germany) (to 31 December)
S. Ní Mhurchú (Ireland)
D. Hayden (U.S.A.) (to 31 August)
M. Hoyne (Ireland)
F. Qiu (China) (to 31 August)
S. Nurmio (Finland) (from 1 September)
M. Theuerkauf (Germany) (from 1 October)

Project Staff

Ogham in 3D Principal Investigator

N. White

Professor Emeritus

M. Ó Murchú
F. Kelly
P. Breatnach (from 1 January)

Staff and Scholars of the School of Theoretical Physics 2015

Senior Professors

W. Nahm (Director)
T. Dorlas
D. O'Connor

Scholars

B. Savoie (France)
M. Leitner (Germany) (to 31 August)
V. Filev (Bulgaria)
Y. Asano (Japan) (from 1 April)

Schrodinger Fellows

G Kells (Ireland)
L. Borsten (Holland) (from 1 January)

Staff and Scholars of the School of Cosmic Physics 2015

Senior Professors

L. Drury (Director)
A. Jones (to 31 January)
C. Bean (from 1 June)

Professors

T. Ray
F. Aharonian
Z. Martinec

Assistant Professors

S. Lebedev
B. O'Reilly

Schrodinger Fellows

A. Taylor-Castillo (U.K.)
V. Rath (Germany)

Director of Observational Seismology

T. Blake

Senior Technical Assistants

C. Horan
M. Smyth

Technical Assistants

E. Flood
A. Grace
H. O'Donnell (to 2 October)
L. Collins
C. Hogg

Clerical Staff

A. Sewielska

Staff and Scholars of the School of Cosmic Physics 2015 (continued)

Scholars

E. Mandolesi (Italy) (to 30 June)
A. Schaeffer (Canada) (to 30 June)
T. Farrell (Ireland)
S. Blake (Ireland)
T. Fritschle (Germany) (to 31 August)
C. Romoli (Italy)
D. Rodgers-Lee (Ireland)
R. Delhaye (France/New Zealand)
A. Licciardi (Italy)
L. Sachl (Czech Republic) (to 14 October)
M. Ravenna (Italy)
E. Neenan (Ireland)
D. Einspigel (Czech Republic)
X. Ogaya (Spain)
R. Bonadio (Italy) (from 9 March)
D. Kiyani (Turkey) (from 1 March to 31 August)
(from 1 November)
N. Celli (Italy) (from 15 April)
M. Koutoulaki (Greece) (from 1 September)
R. Fedriani (Spain) (from 1 October)

Project Staff

C. Moloney (Ireland) IGGP (to 31 July)
R. Azzollini (Spain) MIRI (to 6 September)
J. Vozar (Slovakia) SFI project
N. Piana Agostinetti (Italy) SFI project
F. le Pape (France) WAXI project (to 30 June), SFI project
(from 1 November)
J. Campaña (Spain) SFI project
C. Coughlan (Ireland) SFI project
M. Prada (Spain) PIP project
R. Ainsworth (U.S.A.) SFI project
A. Caratti o Garatti (Italy) SFI project
R. Garcia Lopez (Spain) SFI project
J. Fullea (Spain) EU Marie-Curie (from 9 February)
P. Arroucau (France) SFI project (from 1 March)
E. Roediger (Germany) MIRI (from 1 June to 31 July)
E. O'Gorman (Ireland) Irish Research Council (from 1 October)
D. Craig (Ireland), SFI project (from 1 December)

Professor Emeritus

P. Readman
D. O'Sullivan
A. Thompson
A. Jones (from 1 February)

Vacation Students

J. Grannell (1 June to 30 September)
B. O'Fearraigh (2 June to 24 July)

Financial Statements

for year ended 31 December 2015

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$$A^2 + B^2 = C^2$$
$$\int \mathbf{B} \cdot d\mathbf{A} = 0$$
$$\sum_n \frac{\partial v_{n,2}}{\partial t^2} - c^2 \frac{\partial^2 v_{2,2}}{\partial z^2} =$$
$$\sum_n -\frac{1}{2\rho_0} \frac{\partial^2}{\partial z^2} B_y^2 \cdot (15)$$
$$\infty = X^2 N \cdot 3(9)$$
$$\sqrt{1 - \frac{v^2}{c^2}}$$
$$x(x-1)$$

In euangelium in iudicia prim
cacio ad omni ex purpica
in generatione xpi
ius cuius prima
ius cuius secun

Statement of Responsibilities of the Council

The Council of the Dublin Institute for Advanced Studies is required under section 28(2) of the Institute for Advanced Studies Act 1940 to prepare financial statements in such form as shall be approved by the Minister for Education & Skills with the concurrence of the Minister for Finance.

In preparing those financial statements the Council is required to:

- ▶ select suitable accounting policies and apply them consistently;
- ▶ make judgements and estimates that are reasonable and prudent;
- ▶ prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Institute will continue in operation; and
- ▶ disclose and explain any material departures from applicable accounting standards.

The Council is responsible for keeping adequate accounting records which disclose with reasonable accuracy at any time the financial position of the Institute and which enable it to ensure that the financial statements comply with Section 28(2) of the Act. The Council is responsible for safeguarding the assets of the Institute and for taking reasonable steps for the prevention and detection of fraud and other irregularities.



Werner Nahm
Council Member



Liam Breatnach
Council Member

24 June 2016

Statement on Internal Financial Control

Responsibility for Internal Financial Control

On behalf of the Council of the Institute I acknowledge our responsibility for ensuring that an effective system of internal financial control is maintained and operated.

The system can only provide reasonable and not absolute assurance that assets are safeguarded, transactions authorised and properly recorded, and that material errors or irregularities are either prevented or would be detected in a timely period.

Key Control Procedures

The Council has taken steps to ensure an appropriate control environment by

- ▶ clearly defining management responsibilities;
- ▶ establishing formal procedures for reporting significant control failures and ensuring appropriate corrective action.

The Council has established processes to identify and evaluate business risks by

- ▶ identifying the nature, extent and financial implication of risks facing the Institute including the extent and categories which it regards as acceptable;
- ▶ assessing the likelihood of identified risks occurring;
- ▶ assessing the Institute's ability to manage and mitigate the risks that do occur;
- ▶ assessing the costs of operating particular controls relative to the benefit obtained.

The system of internal financial control is based on a framework of regular management information, administrative procedures including segregation of duties, and a system of delegation and accountability.

In particular it includes:

- ▶ comprehensive budgeting system with an annual budget which is reviewed and agreed by the Council of the Institute;
- ▶ regular reviews by the Council of periodic and annual financial reports which indicate financial performance against forecasts;
- ▶ setting targets to measure financial and other performance;
- ▶ adherence to public procurement guidelines;
- ▶ regular reviews by the Council of external research projects.

The Audit Committee continues to review internal control matters and issues raised by the Comptroller and Auditor General. In 2015, the Audit Committee met on four occasions.

In addition, the 2015 report on internal control systems as provided by the Internal Auditor has been made available to Members of Council.

The Council's monitoring and review of the effectiveness of the system of internal financial control is informed by the work of the internal auditor, the Registrar and other officers within the Institute who have responsibility for the development and maintenance of an appropriate financial control framework and comments made by the Audit Committee and the Comptroller and Auditor General in his management letter or other reports.

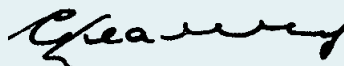
Annual Review of Controls

I confirm that in the year ended 31st December 2015, Council conducted a review of the effectiveness of the internal financial controls of the Institute.

Signed on behalf of the Council of the Institute



Vincent Cunnane
Chairman - Council of the Institute



Cecil Keaveney
Registrar

24 June 2016

Comptroller and Auditor General

Report for presentation to the Houses of the Oireachtas

I have audited the financial statements of the Dublin Institute for Advanced Studies for the year ended 31 December 2015 under the Institute for Advanced Studies Act 1940. The financial statements comprise the Statement of Income and Expenditure and Retained Revenue Reserves, the Statement of Financial Position, the Statement of Cash Flows and the related notes. The financial statements have been prepared in the form prescribed under Section 28 of the Institute for Advanced Studies Act 1940, and in accordance with Generally Accepted Accounting Practice.

Responsibilities of the Council

The Council is responsible for the preparation of the financial statements, for ensuring that they give a true and fair view, and for ensuring the regularity of transactions.

Responsibilities of the Comptroller and Auditor General

My responsibility is to audit the financial statements and report on them in accordance with applicable law.

My audit is conducted by reference to the special considerations which attach to State Bodies in relation to their management and operation.

My audit is carried out in accordance with the International Standards on Auditing (UK and Ireland) and in compliance with the Auditing Practices Board's Ethical Standards for Auditors.

Scope of Audit of the Financial Statements

An audit involves obtaining evidence about the amounts and disclosures in the financial statements, sufficient to give reasonable assurance that the financial statements are free from material misstatement, whether caused by fraud or error. This includes an assessment of

- ▶ whether the accounting policies are appropriate to the Institute's circumstances, and have been consistently applied and adequately disclosed
- ▶ the reasonableness of significant accounting estimates made in the preparation of the financial statements, and
- ▶ the overall presentation of the financial statements.

I also seek to obtain evidence about the regularity of financial transactions in the course of audit.

In addition, I read the Institute's Annual Report to identify material inconsistencies with the audited financial statements and to identify any information that is apparently materially incorrect based on, or materially inconsistent with, the knowledge acquired by me in the course of my audit. If I become aware of any apparent material misstatements or inconsistencies, I consider the implications for my report.

Opinion on the Financial Statements

In my opinion, the financial statements:

- ▶ give a true and fair view of the assets, liabilities and financial position of the Institute as at 31 December 2015 and of its income and expenditure for 2015; and
- ▶ have been properly prepared in accordance with generally accepted accounting practice.

In my opinion, the accounting records of the Institute were sufficient to permit the financial statements to be readily and properly audited. The financial statements are in agreement with the accounting records.

Matters on which I Report by Exception

I report by exception if I have not received all the information and explanations I required for my audit, or if I find

- ▶ any material instance where money has not been applied for the purposes intended or where the transactions did not conform to the authorities governing them, or
- ▶ the information given in the Institute's Annual Report is not consistent with the related financial statements or with the knowledge acquired by me in the course of performing the audit, or
- ▶ the Statement on Internal Financial Control does not reflect the Institute's compliance with the Code of Practice for the Governance of State Bodies, or
- ▶ there are other material matters relating to the manner in which public business has been conducted.

I have nothing to report in regard to those matters upon which reporting is by exception.



Colette Drinan

For and on behalf of the Comptroller and Auditor General

29 June 2016

Statement of Income and Expenditure and Retained Revenue Reserves

	Notes	2015 €	2014 € Restated
Income			
Oireachtas Grant		6,136,001	6,201,000
Net deferred funding for retirement benefits	13.c	748,688	1,338,169
Sales of Publications		37,550	44,507
Projects	4	1,618,398	1,533,675
Other	5	42,411	39,095
		8,583,048	9,156,446
Transfer from Capital Reserve	7	252,773	379,445
		8,835,821	9,535,891
Expenditure			
	3		
School of Celtic Studies		1,075,067	1,263,670
School of Theoretical Physics		855,657	801,333
School of Cosmic Physics		2,770,948	2,591,913
Administration		4,000,824	4,728,203
		8,702,496	9,385,119
Surplus for the year		133,325	150,772
Balance at 1 January		657,772	507,000
Balance at 31 December		791,097	657,772
Statement of Comprehensive Income			
		2015 €	2014 € Restated
Surplus for the year		133,325	150,772
Experience gains/(losses) on retirement benefit obligations		1,256,000	(309,000)
Changes in assumptions underlying the present value of retirement benefit obligations		2,153,000	(8,033,000)
Actuarial Gain/(Loss) on Retirement Benefit Obligations	13.b	3,409,000	(8,342,000)
Adjustment to Deferred Retirement Benefit Funding		(3,409,000)	8,342,000
Total Recognised Gain for the Year		133,325	150,772

The Statement of Cash Flows and notes 1 to 20 form part of these financial statements.



Werner Nahm
Council Member

24 June 2016



Liam Breatnach
Council Member

24 June 2016

Statement of Financial Position

	Notes	2015 €	2014 € Restated
Assets			
Fixed Assets: Property, Plant and Equipment	6	1,100,130	1,352,903
Current Assets:			
Cash on Hand and at Bank		5,800,626	2,464,057
Receivables	9	265,304	173,199
Project Receivables	4(a)	26,219	36,883
Total Assets		7,192,279	4,027,042
Less Liabilities			
Payables - Amounts falling due within one year			
Payables	8	1,010,370	872,095
Project Payables	4(a)	4,262,982	1,116,589
Payables - Amounts falling due after one year			
	8	27,700	27,683
		5,301,052	2,016,367
Assets Less Liabilities Before Retirement Benefits		1,891,227	2,010,675
Deferred Retirement Benefit funding	13.c	51,210,000	53,870,000
Retirement Benefit Obligations	13.b	(51,210,000)	(53,870,000)
		0	0
Net Assets		1,891,227	2,010,675
Financed by:			
Income and Expenditure Account		791,097	657,772
Capital Reserve	7	1,100,130	1,352,903
		1,891,227	2,010,675

The Statement of Cash Flows and notes 1 to 20 form part of these financial statements.



Werner Nahm
Council Member

24 June 2016



Liam Breatnach
Council Member

24 June 2016

Statement of Cash Flows

	Notes	2015 €	2014 € Restated
Reconciliation of Operating Surplus/(Deficit) to Net Cash (Outflow)/Inflow from Operating Activities			
Surplus/(Deficit) for the Year		133,325	150,772
Interest Received	5	(8,121)	(19,979)
Increase/(Decrease) in Payables		138,292	(658,448)
(Increase)/Decrease in Receivables		(92,105)	5,082
Net Increase/(Decrease) in Research Programmes and Fees		3,157,057	(453,641)
Depreciation	6	400,799	440,087
Capital Reserve Transfer	7	(252,773)	(379,445)
Loss on Disposal		831	117
Net Cash Inflow/(Outflow) from Operating Activities		3,477,305	(915,455)
Cash Flow Statement			
Net Cash Inflow/(Outflow) from Operating Activities		3,477,305	(915,455)
Cashflow from Financing Activities			
Bank Interest Received	5	8,121	19,979
Cashflow from Investing Activities			
Purchase of Tangible Assets	6	(148,857)	(60,759)
Increase in Cash		3,336,569	(956,235)
Reconciliation of Net Cash Flow to Movement in Net Funds			
Increase/(Decrease) in Cash		3,336,569	(956,235)
Net Funds at 1 January		2,464,057	3,420,292
Net Funds at 31 December		5,800,626	2,464,057
Analysis of Change in Net Funds			Cash at bank and in hand
			€
At Beginning of Year 2015			2,464,057
Cash Flows			3,336,569
At End of Year 2015			5,800,626

The Statement of Cash Flows and notes 1 to 20 form part of these financial statements.



Werner Nahm
Council Member

24 June 2016



Liam Breatnach
Council Member

24 June 2016

Notes to the Financial Statements

1. Accounting Policies

The Institute was established under the Institute for Advanced Studies Act, 1940. Its functions include the provision of facilities for the furtherance of advanced studies and the conduct of research in specialised branches of knowledge. It comprises three Schools - Celtic Studies, Theoretical Physics and Cosmic Physics.

a) Basis of Accounting

This is the first set of financial statements prepared by the Dublin Institute for Advanced Studies in accordance with accounting standards issued by the Financial Reporting Council, including FRS 102 “The Financial Reporting Standard applicable in the UK and Republic of Ireland” (“FRS 102”). The Institute transitioned from previously extant Irish and UK GAAP to FRS 102 as at 1 January 2014. An explanation of how transition to FRS 102 has affected the reported financial position and financial performance is given in note 2.

The preparation of financial statements in compliance with FRS 102 requires the use of certain critical accounting estimates. It also requires management to exercise judgement in applying the Institute’s accounting policies. (See Note 19).

The financial statements have been prepared on an accruals basis under the historical cost convention and comply with the financial reporting standards of the Financial Reporting Council.

The following accounting policies have been applied:

b) Oireachtas Grants

Income is shown on a cash received basis.

c) Fixed Assets: Property, Plant and Equipment

Fixed Assets comprise the furniture, equipment, computers and motor vehicles of the Institute and are shown at cost less accumulated depreciation. The rates of depreciation, calculated on a straight line basis, are as follows:

Furniture and Equipment	10%
Computers	25%
Motor Vehicles	25%

Premises occupied by the Institute are leased from the Office of Public Works.

At each reporting date the Institute assesses whether there is any indication of impairment. If such indication exists, the recoverable amount of the asset is determined which is the higher of its fair value less costs to sell and its value in use. An impairment loss is recognised where the carrying amount exceeds the recoverable amount.

Gains and losses on disposals are determined by comparing the proceeds with the carrying amount and are recognised within the Income and Expenditure Account.

d) Capital Reserve

The capital reserve represents the unamortised value of income used for the purchase of Fixed Assets.

e) Library

Expenditure on library books and materials is written off in the year in which it is incurred.

f) Publications

Expenditure on publications is written off in the year in which it is incurred.

g) Superannuation

The Dublin Institute for Advanced Studies operates a defined benefit retirement benefit scheme which is funded annually on a pay as you go basis from monies available to it, including monies provided by the Department of Education and Skills and from contributions deducted from staff salaries.

Notes to the Financial Statements (continued)

1. Accounting Policies (continued)

The Dublin Institute for Advanced Studies also operates the Single Public Service Pension Scheme (Single Scheme) which is the defined benefit retirement benefit scheme for pensionable public servants appointed on or after 1 January 2013. Single Scheme member's contributions are paid over to the Department of Public Expenditure and Reform.

Retirement benefit costs reflect retirement benefits earned by employees in the period and are shown net of staff retirement benefit contributions which are retained by the Dublin Institute for Advanced Studies. An amount corresponding to the retirement benefits charge is recognised as income to the extent that it is recoverable, and offset by grants received in the year to discharge retirement benefit payments.

Actuarial gains or losses arising on scheme liabilities are reflected in the Statement of Comprehensive Income and a corresponding adjustment is recognised in the amount recoverable from the Department of Education and Skills.

Retirement benefit liabilities represent the present value of future retirement benefit payments earned by staff to date. Deferred retirement benefits funding represents the corresponding asset to be recovered in future periods from the Department of Education and Skills.

h) Projects

The Dublin Institute for Advanced Studies receives external funding from industry, government bodies and the European Commission. A chart of accounts is maintained for each project. Income and expenditure on projects is reflected in the financial statements in the year to which they relate. A surplus or deficit on a project is reflected in the financial statements when realised.

i) Receivables

Short term receivables are measured at transaction price, less any impairment.

j) Payables

Short term payables are measured at the transaction price.

k) Cash and Cash Equivalents

Cash is represented by cash in hand and deposits with financial institutions repayable without penalty on notice of not more than 24 hours. Cash equivalents are highly liquid investments that mature in no more than three months from the date of acquisition and that are readily convertible to known amounts of cash with insignificant risk of change in value.

l) Financial Instruments

The Institute only enters into basic financial instrument transactions that result in the recognition of financial assets and liabilities like trade and other accounts receivable and payable. Basic financial instruments are recorded at transaction price.

m) Holiday Pay

A liability is recognised to the extent of any unused holiday pay entitlement which is accrued at the balance sheet date and carried forward to future periods. This is measured at the undiscounted salary cost of the future holiday entitlement and accrued at the balance sheet date.

n) Operating leases

Rentals payable under operating leases are charged to the Income and Expenditure Account as incurred over the term of the lease.

o) Functional Currency

The Institute's functional and presentational currency is euro.

p) Non Project Grants

Grants from third parties are recorded in the financial statements using the Accruals Method and are allocated to income so as to match with the related expenditure to which they relate.

Notes to the Financial Statements (continued)

2. Transition to FRS 102

Prior to 1 January 2014, the Dublin Institute for Advanced Studies prepared its financial statements under previously extant Irish GAAP. From 1 January 2014, the Institute has elected to present its annual financial statements in accordance with FRS 102.

The figures in respect of the 2014 financial statements have been restated to reflect the Institute's adoption of FRS 102 from the date of transition 1 January 2014.

Accounting Estimates

In accordance with FRS 102, as a first time adopter, the Institute did not revise estimates on transition to reflect new information subsequent to the original estimate.

The reconciliation of the surplus prepared in accordance with Irish GAAP and in accordance with FRS 102 for the year ended 31 December 2014 and the reconciliation of the amount of total reserves at 31 December 2014, before and after the application of FRS102, is as follows:

	Surplus for year ended 31 Dec 2014 €	Reserves as at 1 Jan 2014 €	Reserves as at 31 Dec 2014 €
As reported under Irish GAAP			
Income and expenditure account	200,589	661,047	861,636
	200,589	661,047	861,636
Impact of:			
(a) Holiday pay accrual	(49,817)	(154,047)	(203,864)
	(49,817)	(154,047)	(203,864)
As reported under FRS 102			
Income and expenditure account	150,772	507,000	657,772
	150,772	507,000	657,772

(a) Holiday pay accrual

Irish GAAP: Under Irish GAAP provisions for holiday pay accruals were not recognised and holiday pay was charged to the statement of income and expenditure as it was paid.

FRS 102: FRS 102 requires short term employee benefits to be charged to the statement of income and expenditure as the employee service is received.

Impact: This has resulted in the Institute recognising a liability for holiday pay of €154,047 on transition to FRS 102. In the year to 31 December 2014, this liability increased by €49,817 and the increase was recognised in the statement of income and expenditure. The holiday pay liability at 31 December 2014 was €203,864.

Notes to the Financial Statements (continued)

3. Detailed Analysis of Income & Expenditure for the year ended 31/12/2015

INCOME	Notes	School	School of	School	Adminis- tration	2015 Total	2014 Total
		of Celtic Studies	Theoretical Physics	of Cosmic Physics			
Dept. of Education and Skills Grant-In-Aid (Annual)		1,466,340	951,355	2,246,667	1,471,639	6,136,001	6,201,000
*Net Deferred Funding for Retirement Benefits	13.c	(496,319)	(105,186)	(743,538)	2,093,731	748,688	1,338,169
Sales of Publications		37,550	-	-	-	37,550	44,507
Project Income	4.a	53,934	14,611	1,549,853	-	1,618,398	1,533,675
Other	5	60	800	2,170	39,381	42,411	39,095
		1,061,565	861,580	3,055,152	3,604,751	8,583,048	9,156,446
Transfer from Capital Reserve		-	-	-	252,773	252,773	379,445
		1,061,565	861,580	3,055,152	3,857,524	8,835,821	9,535,891
EXPENDITURE							
Payroll Costs	10	932,797	771,421	1,414,327	608,491	3,727,036	4,063,624
*Retirement Benefit Costs	13.a	(21,733)	(31,302)	(40,036)	2,235,042	2,141,971	2,494,429
*Retirement Benefit Project Costs	13.a	-	-	(2,392)	-	(2,392)	(2,299)
Project Costs	4.a	49,393	10,686	1,218,504	-	1,278,583	989,412
Library and Book Storage		45,550	70,365	46,538	-	162,453	161,806
Depreciation	6	-	-	-	400,799	400,799	440,087
Rent, Rates and Insurance		-	-	-	199,165	199,165	200,212
General Expenses	11	17,981	2,064	25,322	140,127	185,494	309,959
Travel and Seminar Expenses		12,245	28,458	57,748	6,069	104,520	111,480
Premises Maintenance and Security		-	-	-	168,751	168,751	238,311
Computer and Internet Expenses		3,228	2,606	44,622	59,084	109,540	153,452
Fuel Light and Power		-	-	-	146,995	146,995	150,537
Postage and Telephone		-	-	-	25,674	25,674	24,338
Stationery		8,041	1,359	6,315	6,532	22,247	22,050
Publications		26,827	-	-	-	26,827	19,082
Advertising		738	-	-	2,665	3,403	5,213
Minor Office Equipment		-	-	-	599	599	3,309
Disposal	7	-	-	-	831	831	117
		1,075,067	855,657	2,770,948	4,000,824	8,702,496	9,385,119
(DEFICIT)/SURPLUS FOR YEAR		(13,502)	5,923	284,204	(143,300)	133,325	150,772
Balance at 1 January		261,720	97,546	1,588,475	(1,086,106)	657,772	507,000
Balance at 31 December		248,218	103,469	1,872,679	(1,229,406)	791,097	657,772

Note (a)

*The net of 13c and 13a represents the superannuation paid less contributions deducted within each of the schools and section.

Note (b)

Costs directly related to research (e.g., pay, library, computer expenses, travel) have been apportioned to the schools. Overhead costs such as rent, insurance, utilities and property maintenance have been charged to Administration.

Note (c) Grant In Aid

An amount of €6,136,001 (2014 €6,201,000) was received from the Department of Education and Skills. The grant is provided by the Department of Education and Skills towards liabilities under pay and general non-pay expenses and is drawn down by the Institute on an annual basis.

Notes to the Financial Statements (continued)

4. (a) Projects

	2015 €	2014 €
Opening Balances	1,079,706	1,533,347
Receipts	4,775,455	1,080,034
	5,855,161	2,613,381
Closing Balances (Project Receivables €26,219, Project Payables €4,262,982)	(4,236,763)	(1,079,706)
Applied as Income	1,618,398	1,533,675
Income Allocation		
School of Celtic Studies	53,934	80,832
School of Theoretical Physics	14,611	6,422
School of Cosmic Physics	1,549,853	1,446,421
	1,618,398	1,533,675
Total Project Income	1,618,398	1,533,675

Project Costs

	Celtic Studies €	Theoretical Physics €	Cosmic Physics €	2015 Total €	2014 Total €
Payments to Partners/Associates	11,100	-	75,000	86,100	119,232
Salaries/Scholarships	37,321	-	843,146	880,467	601,923
Travel	957	9,063	144,483	154,503	165,694
Other	15	1,623	155,875	157,513	102,563
Total Project Cost	49,393	10,686	1,218,504	1,278,583	989,412

4.(b) Project Detail

	Funding Authority	Opening Balance €	Receipts €	Recurrent Expenditure €	Applied as Income (including Capital) €	Closing Balance €	Capital €
School of Celtic Studies							
Irish Script on Screen		14,637	-	15	15	14,622	-
Celtic Summer School		8,793	-	700	5,240	3,553	-
Ogham	Dept. Arts	4,914	40,000	48,678	48,679	(3,765)	-
Total Celtic Studies		28,344	40,000	49,393	53,934	14,410	-

Notes to the Financial Statements (continued)

4.(b) Project Detail (continued)

	Funding Authority	Opening Balance €	Receipts €	Recurrent Expenditure €	Applied as Income (including Capital) €	Closing Balance €	Capital €
School of Theoretical Physics							
Bethe Ansatz	SFI	11,233	-	831	831	10,402	-
T. Tchrakian	SFI	11,034	-	1,828	1,828	9,206	-
Veselin Filev Inspire Award	IRCSET	5,858	-	-	5,858	-	-
M.Ihl Fellow	IRCSET	10,124	(9,910)	-	214	-	-
G. Kells	SFI	(450)	450	-	-	-	-
M. Leitner Conference	Various	-	5,880	8,027	5,880	-	-
Total Theoretical Physics		37,799	(3,580)	10,686	14,611	19,608	-
School of Cosmic Physics							
Gamma Ray Bursts	SFI	13,543	-	-	13,543	-	13,543
Total Astronomy		13,543	-	-	13,543	-	13,543
Nam Conference	A. Observatory	29,769	-	-	-	29,769	-
Jetset	EC	1,900	-	1,832	1,900	-	-
GNM	SFI	9,622	-	-	-	9,622	-
E-Inis -Cycle 4	PRTL I	123,855	-	8,066	123,855	-	-
Pic Simulations	SFI	57,748	-	2,588	57,748	-	4,631
D.Coffey Fellow	IRCSET	6,350	-	-	6,350	-	-
KM3Net -PP	EC	4,366	-	1,730	3,231	1,135	1,500
E. Whelan Inspire	IRCSET	6,749	-	-	6,749	-	-
NGST Project	ESA	828	75,954	60,857	62,865	13,917	2,008
KVM3Net	EC	6,941	-	4,908	4,908	2,033	-
Valenti EC Reintegration	EC	7,986	-	2,500	7,986	-	-
Aleks Scholz-Brown Dwarfs	SFI	12,041	13,979	4,900	4,900	21,120	-
Origin of Jets	SFI	17,493	-	7,557	7,557	9,936	-
EASY T. Ray 2014	SFI	199,979	313,594	250,145	270,447	243,126	20,303
E. O' Gorman Fellow	IRC	-	22,947	10,223	10,223	12,724	-
Horizon 2020 Catalyst MKID	SFI	-	16,200	-	-	16,200	-
Total Astrophysics		485,627	442,674	355,306	568,719	359,582	28,442

Notes to the Financial Statements (continued)

4.(b) Project Detail (continued)

	Funding Authority	Opening Balance	Receipts	Recurrent Expenditure	Applied as Income (including Capital)	Closing Balance	Capital
		€	€	€	€	€	€
Samtex	Industry	13,766	-	6,250	6,250	7,516	-
Geo External Funds	Industry	5,835	-	281	5,835	-	-
Isle 2	SFI	5,417	-	-	5,417	-	-
Geophysics Schools							
Seismology	Various	8,955	799	-	-	9,754	-
Dynamics of Continuity	SFI	2,557	-	(2,005)	(2,005)	4,562	-
TopoMed	IRCSET	8,008	-	7,828	8,008	-	-
Regional Seismic	SFI	3,955	-	-	-	3,955	-
CTBTO	Dept.For.Affairs	2,931	-	270	270	2,661	-
Irish Geoscience Graduate Prog.	Dept. Commun.	3,078	122,098	48,538	125,176	-	11,818
IRETHERM	SFI	180,800	-	138,581	136,189	44,611	-
GIANICE 11	SFI	57,400	-	17,112	17,112	40,288	-
SIRG E2174	SFI	37,504	101,888	95,131	95,131	44,261	-
ESA UWB Grant	ESA	32,664	-	3,021	7,240	25,424	4,219
WAXI	Industry	24,918	7,930	28,750	32,848	-	-
IRECCSEM	SFI	(36,433)	107,548	93,569	93,569	(22,454)	-
Crust	SFI	135,263	76,232	113,921	119,819	91,676	5,899
PIPCO	Industry	27,775	150,000	144,043	144,043	33,732	-
Winterc-3D Fullea Fellow	EC	-	122,113	65,427	68,370	53,743	2,943
4DARTIC	Industry	-	24,000	19,428	19,428	4,572	-
ICRAG	SFI	-	656,736	64,790	66,628	590,108	1,839
Shallow Crust Fellow	SFI	-	46,591	18,263	18,263	28,328	-
V. Rath GSI Short Call	GSI	-	12,500	-	-	12,500	-
P. Arroucau GSI Short Call	GSI	-	11,750	-	-	11,750	-
iMARL Infrastructure	SFI	-	2,856,176	-	-	2,856,176	-
Total Geophysics		514,393	4,296,361	863,198	967,591	3,843,163	26,718
Total Cosmic Physics		1,013,563	4,739,035	1,218,504	1,549,853	4,202,745	68,703
Total Net Balances - DIAS		1,079,706	4,775,455	1,278,583	1,618,398	4,236,763	68,703

Note

Project receipts are applied as project income, at a level that equals the annual expenditure incurred by the associated project. The closing balances above represent overhead earned to date and advance funding to meet financial commitments in 2016. The capital column outlines the expenditure on fixed assets during 2015.

Notes to the Financial Statements (continued)

5. Other Income

	2015 €	2014 €
Bank Interest	8,121	19,979
Fees and Grants	1,800	11,399
Other	32,490	7,717
Total	42,411	39,095

6. Fixed Assets: Property, Plant and Equipment

Cost	Furniture & Equipment €	Motor Vehicles €	Computers €	Total €
Opening Balance 1/1/2015	3,761,249	45,700	2,274,907	6,081,856
Additions*	22,702	15,131	111,024	148,857
Disposals	-	(45,700)	(16,737)	(62,437)
	3,783,951	15,131	2,369,194	6,168,276

Depreciation

Opening Balance 1/1/2015	2,730,871	44,683	1,953,399	4,728,953
Charge	222,478	1,813	176,508	400,799
Disposals	-	(44,869)	(16,737)	(61,606)
	2,953,349	1,627	2,113,170	5,068,146

Net book value 31/12/2015	830,602	13,504	256,024	1,100,130
Net book value 31/12/2014	1,030,378	1,017	321,508	1,352,903

Note

* All fixed assets in excess of €1,000 are capitalised in the books of DIAS.

7. Capital Reserve

	2015 €	2014 €
Balance at 1 January	1,352,903	1,732,348
Transfer to Income and Expenditure Account		
Income allocated to acquire fixed assets (Project Funded)	68,703	35,417
Income allocated to acquire fixed assets (Exchequer Funded)	80,154	25,342
Amortisation in line with asset depreciation	(400,799)	(440,087)
Amount released on disposals	(831)	(117)
	(252,773)	(379,445)
Balance at 31 December	1,100,130	1,352,903

Notes to the Financial Statements (continued)

8. Payables due within twelve months

	2015 €	2014 €
Trade Payables	290,924	123,860
Accruals	253,032	361,057
VAT	20,055	39,233
Revenue Payables	133,921	131,623
Retirement Benefit Control Account	312,438	216,322
	1,010,370	872,095
Payables due after twelve months	2015	2014
	€	€
These comprise: Vernam Hull Bequest	25,239	25,223
Carmody Fund	2,461	2,460
	27,700	27,683

The funds relating to the above are held on deposit.

9. Receivables

	2015 €	2014 €
Prepayments	244,115	150,033
Book Sales Receivables	1,241	1,511
Sundry	19,948	21,655
	265,304	173,199

10. Payroll Costs

	Celtic Studies €	Theoretical Physics €	Cosmic Physics €	Admin. €	2015 Total €	2014 Total €
Salaries/Wages	788,526	686,004	1,317,988	608,491	3,401,009	3,663,125
Scholarships	143,771	85,417	96,339	-	325,527	375,949
Visitors	-	-	-	-	-	23,950
Honoraria	500	-	-	-	500	600
	932,797	771,421	1,414,327	608,491	3,727,036	4,063,624

Note

Pension levy deductions of €252,518 (2014: €253,145) were paid to the Department of Education and Skills during 2015. Staff Numbers 50.5 (2014:52.5), ECF Numbers 55 (2014: 55).

Key Management Remuneration

Key management personnel include the Registrar and the senior management team for whom the total remuneration cost was €599,765 (2014 €598,010) in the year.

Notes to the Financial Statements (continued)

11. General Expenses

	Celtic Studies	Theoretical Physics	Cosmic Physics	Admin.	2015 Total	2014 Total
	€	€	€	€	€	€
Miscellaneous	8,461	-	20,548	23,654	52,663	136,528
Promotions/Lunches	3,797	-	4,274	12,936	21,007	12,137
Professional Fees	-	-	-	49,864	49,864	113,102
Training	5,723	2,064	500	3,304	11,591	1,826
Audit Fee	-	-	-	18,000	18,000	18,800
Bank Charges	-	-	-	1,479	1,479	2,368
Board Meeting Expenses	-	-	-	25,840	25,840	20,124
Health & Safety	-	-	-	5,050	5,050	5,074
	17,981	2,064	25,322	140,127	185,494	309,959

12. Leasing

Operating Leases

The premises occupied by the Institute are leased from the Office of Public Works.

The premises include Observatory House Dunsink, 5 Merrion Square, 9-10 Burlington Road and 31 Fitzwilliam Place.

There is a term of 83 years left on the lease for Observatory House and the other leases are renewed on an annual basis.

The commitment on foot of such leases in respect of 2016 is €113,609.

Office of Public Works Leases	Annual Rent
	€
Observatory House Dunsink	330
5 Merrion Square	5,022
9-10 Burlington Road	50,167
31 Fitzwilliam Place	58,090
	113,609

At 31 December 2015 the Institute had the following future minimum lease payments under non-cancellable operating leases for each of the following periods:

	2015	2014
	€	€
Payable within one year	113,609	113,609
Between two and five years	990	990
After five years	26,070	26,070

Notes to the Financial Statements (continued)

13. Retirement Benefit Costs

a) Analysis of total retirement benefit costs charged to Expenditure

	2015 (€'000)	2014 (€'000)
Current Service Cost	1,040	953
Interest on Retirement Benefit Obligations	1,218	1,669
Employee Contributions	(118)	(130)
	2,140	2,492

b) Movement in Net Retirement Benefit Obligations during the financial year

	2015 (€'000)	2014 (€'000)
Retirement Benefit Obligations at 1 January	(53,870)	(44,190)
Current Service Cost	(1,040)	(953)
Interest Costs	(1,218)	(1,669)
Actuarial (Loss)/Gain	3,409	(8,342)
Retirement Benefits Paid in the Year	1,509	1,284
Retirement Benefit Obligations at 31 December	(51,210)	(53,870)

c) Deferred Funding for Retirement Benefits

DIAS recognises these amounts as an asset corresponding to the unfunded retirement benefit obligations on the basis of the set of assumptions described above and a number of past events. These events include the statutory basis for the establishment of the retirement benefit scheme, and the policy and practice in relation to funding public service retirement benefits including contributions by employees and the annual estimates process. While there is no formal agreement regarding these specific amounts with the Department of Education and Skills, the DIAS has no evidence that this funding policy will not continue to meet such sums amount in accordance with current practice.

The Net Deferred Funding for Retirement Benefit Obligations recognised in Income and Expenditure Account was as follows:

	2015 (€'000)	2014 (€'000)
Funding Recoverable in Respect of Current Year Retirement Benefit Costs	2,258	2,622
State Grant Applied to Pay Pensioners	(1,509)	(1,284)
	749	1,338

The deferred funding asset for retirement benefits as at 31 December 2015 amounted to €51.210 million (2014: €53.870 million).

d) History of defined benefit obligations

	2015 (€'000)	2014 (€'000)	2013 (€'000)
Defined Benefit Obligations	51,210	53,870	44,190
Experience (Gains)/Losses on Scheme Liabilities Amount.	(1,256)	309	(487)
Percentage of Scheme Liabilities.	(2.50%)	0.60%	(1.10%)

The cumulative actuarial (gain)/loss recognised in the Statement of Total Recognised Gains and Losses amounts to €1,532,000 (2014: €4,941,000).

Notes to the Financial Statements (continued)

13. Retirement Benefit Costs (continued)

e) General Description of the Schemes

The retirement benefits scheme is a defined benefit final salary retirement benefit arrangement with benefits and contributions defined by reference to current "model" public sector scheme regulations. The scheme provides a retirement benefit (eightieths per year of service), a gratuity or lump sum (three eightieths per year of service) and spouse's and children's retirement benefits. Normal Retirement Age is a member's 65th birthday, and pre 2004 members have an entitlement to retire without actuarial reduction from age 60. Retirement Benefits in payment (and deferment) normally increase in line with general public sector salary inflation. The valuation used for FRS 102 disclosures has been based on a full actuarial valuation by a qualified independent actuary taking account of the requirements of the FRS in order to assess the scheme liabilities at 31 December 2015.

The Single Public Service Pension Scheme (Single Scheme) is the defined benefit retirement benefit scheme for pensionable public servants appointed on or after 1 January 2013 in accordance with the Public Service Pension Scheme (Single Scheme and Other Provisions) Act 2012. The scheme provides for a retirement benefit and retirement lump sum based on career-average pensionable remuneration and spouse's and children's pensions. The minimum pension age is 66 years (rising in line with State pension age changes). It includes an actuarially-reduced early retirement facility from age 55. Retirement Benefits in payment increase in line with the consumer price index.

The principal actuarial assumptions were as follows:

	2015	2014	2013
Rate of Increase in Salaries	2.50%	2.50%	3.00%
Rate of Increase in Retirement Benefits in Payment	2.00%	2.00%	2.50%
Discount Rate	2.50%	2.25%	3.75%
Inflation Rate	1.50%	1.50%	2.00%

The mortality basis adopted allows for improvements in life expectancy over time, so that the life expectancy at retirement will depend on the year in which a member attains retirement age (age 65). The table below shows the life expectancy for members attaining age 65 in 2015 and 2035.

	31/12/2015		31/12/2014	
Year of Attaining Age 65	2015	2035	2014	2034
Life Expectancy - Male	87.3	89.9	87.3	89.9
Life Expectancy - Female	88.7	90.9	88.7	90.9

14. Disclosure of Transactions

The Council of the Institute adopts procedures in accordance with guidelines issued by the Department of Finance in relation to the disclosure of interests by Council Members and these procedures have been adhered to by the Council Members during the year.

No Council Member has declared an interest.

Notes to the Financial Statements (continued)

15. Disclosure of Council Members/Registrar Salary, Fees and Expenses

	Total Remuneration 2015 €	Total Expenses 2015 €	Total Remuneration 2014 €	Total Expenses 2014 €
Council Member				
Dr Vincent Cunnane	-	939	-	1,551
Members Appointed by the Governing Boards of Constituent Schools				
Professor Gerry Wrixon	-	125	-	336
Professor Arthur Jaffe	-	1,503	-	2,065
Professor Anders Ahlqvist	-	8,908	-	3,860
Professor Werner Nahm	-	-	-	-
Professor Luke Drury	-	-	-	-
Professor Liam Breatnach	-	-	-	-
Registrar				
Mr. Cecil Keaveney *	97,906	-	97,906	-
	97,906	11,475	97,906	7,812

* Note

The Registrar is in receipt of a salary only. He is not paid any bonus. The Registrar's retirement benefit entitlements does not exceed the standard entitlements in the model public sector defined benefit superannuation scheme.

16. Number of Employees with Benefits in 2015 that fall within bands of €10,000 from €60,000 onwards.

No. of Employees with benefits €60k	No. of Employees with benefits €70k	No. of Employees with benefits €90k	No. of Employees with benefits €100k	No. of Employees with benefits €110k	No. of Employees with benefits €120k	No. of Employees with benefits €130k
1	7	2	2	-	1	5

17. Employer Retirement Benefit Contributions

Employer contributions in 2015 totalled €90,425.

18. Capital Commitments

There are capital commitments of €100,000 for 2016 that has not been provided for in the financial statements.

Notes to the Financial Statements (continued)

19. Judgements in Applying Accounting Policies and Key Sources of Estimation

The preparation of these financial statements requires management to make judgements, estimates and assumptions that affect the application of policies and reported amounts of assets and liabilities, income and expenses. Judgements and estimates are continually evaluated and are based on historical experiences and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

The Institute makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are discussed below.

Useful Lives of Tangible Fixed Assets

Long-lived assets comprising primarily of Furniture and Equipment, Computers and Motor Vehicles represent a significant portion of total assets.

The annual depreciation charge depends primarily on the estimated lives of each type of asset and, in certain circumstances, estimates of residual values. The Council regularly review these useful lives and change them if necessary to reflect current conditions. In determining these useful lives management consider technological change, patterns of consumption, physical condition and expected economic utilisation of the assets. Changes in the useful lives can have a significant impact on the depreciation charge for the financial year.

Actuarial Assumptions in Respect of Defined Benefit Retirement Benefit Schemes

The application of actuarial assumptions relating to defined benefit retirement benefit schemes is incorporated in the financial statements in accordance with FRS 102. In applying FRS 102, advice is taken from independent qualified actuaries. In this context, significant judgement is exercised in a number of areas, including future changes in salaries and inflation, mortality rates and the selection of appropriate discount rates. A defined benefit asset is recorded matching the liability on the basis that the liability is funded by the state.

Provisions

The Institute makes provisions for legal and constructive obligations, which it knows to be outstanding at the period end date. These provisions are generally made based on historical or other pertinent information, adjusted for recent trends where relevant. However, they are estimates of the financial costs of events that may not occur for some years. As a result of this and the level of uncertainty attaching to the final outcomes, the actual out-turn may differ significantly from that estimated.

20. Approval of Accounts

The Financial Statements were approved by Council on the 23 June 2016.

Ráitis Airgeadais

don bhliain dár críoch 31 Nollaig 2015

CLÁR

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$$A^2 + B^2 = C^2$$
$$\int B \cdot dA = 0$$
$$\sum_n \frac{\partial^2 v_{1,2}}{\partial t^2} - c^2 \frac{\partial^2 v_{2,2}}{\partial z^2} =$$
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Ráiteas Freagrachtaí na Comhairle

Éilítear ar Chomhairle Institiúid Ard-Léinn Bhaile Átha Cliath faoi alt 28(2) den Acht um Institiúid Ard-Leighinn, 1940 ráitis airgeadais a ullmhú ar shlí a cheadóidh an tAire Oideachais & Eolaíochta le comhthoilú an Aire Airgeadais Agus an Chomhairle ag ullmhú na ráitis airgeadais sin éilítear uirthi:

- ▶ polasaithe chuntasaíochta oiriúnacha a roghnú agus iad a chur i bhfeidhm go comhleanúnach;
- ▶ breithiúnais agus meastacháin a dhéanamh atá réasúnach agus stuama;
- ▶ na ráitis airgeadais a ullmhú ar bhonn gnóthais leantach mura bhfuil sé míchuí glacadh leis go leanfaidh an Institiúid ag oibriú; agus
- ▶ aon imeacht ábhartha ó chaighdeáin chuntasaíochta infheidhme a nochtadh agus a mhíniú

Tá freagracht ar an gComhairle taifid chearta iomchuí a choinneáil a nochtáinn ag aon am le cruinneas réasúnach staid airgeadais na hInstitiúide agus a chuireann ar a cumas a chinntiú go gcloínn na ráitis airgeadais le hAlt 28(2) den Acht. Tá freagracht ar an gComhairle sócmhainní na hInstitiúide a shlánú agus as céimeanna réasúnacha a ghlacadh le cosc a chur ar chialais agus ar neamhrialtachtaí eile agus iad a aimsiú.



Werner Nahm
Comhalta Den Chomhairle



Liam Breatnach
Comhalta Den Chomhairle

Dáta 24 Meitheamh 2016

Ráiteas faoin gCóras Rialaithe Airgeadais Inmheánaigh

Freagracht as an gCóras Rialaithe Airgeadais Inmheánaigh

Thar ceann Chomhairle na hInstitiúide is mian liom ár bhfreagracht a chur in iúl lena chinntiú go ndéantar cothabháil agus go n-oibrítear córas rialaithe airgeadais inmheánaigh.

Ní féidir leis an gcóras ach dearbhú réasúnach agus ní dearbhú críochnaitheach a chur ar fáil go ndéantar slánú ar shócmhainní, go mbíonn idirbheartaíochtaí údaráithe agus taifeadta i gceart, agus go gcuirtear cosc ar earráidí ábhartha nó ar neamhrialtachtaí nó go n-aimseofaí iad i dtréimhse chaoithiúil.

Nósanna Imeachta Rialaithe Lárnacha

Tá céimeanna glactha ag an gComhairle lena chinntiú go mbeidh timpeallacht rialaithe chuí i bhfeidhm trí

- ▶ sainmhíniú soiléir a thabhairt maidir le freagrachtaí bainistíochta;
- ▶ nósanna imeachta foirmiúla a bhunú le teipeanna rialaithe suntasacha a thuairisciú agus lena chinntiú go dtógtar gníomh cuí leis an gceist a cheartú.

Tá próisis bunaithe ag an gComhairle le rioscaí gnó a aithint agus iad a luacháil trí

- ▶ nádúr, méid agus tionchar airgeadais na rioscaí a bhíonn os comhair na hInstitiúide a aithint lena n-áirítear méid agus catagóir a mheasann an Institiúid a bheith inghlactha;
- ▶ measúnú a dhéanamh ar an dóchúlacht atá ann go dtarlóidh na rioscaí aitheanta;
- ▶ measúnú a dhéanamh ar chumas na hInstitiúide na rioscaí a tharlaíonn a bhainistiú agus a mhaolú;
- ▶ measúnú a dhéanamh ar na costais a bhaineann le rialacháin áirithe a oibriú a bhaineann leis an sochar a bhaintear amach.

Tá an córas rialaithe airgeadais inmheánaigh bunaithe ar chreat oibre eolais bainistíochta rialta, nósanna imeachta riaracháin lena n-áirítear dualgais a roinnt, agus córas toscaireachta agus cuntasachta.

Áirítear leis go háirithe:

- ▶ córas buiséid cuimsitheach le buiséad bliantúil a ndéanann Comhairle na hInstitiúide athbhreithniú air agus a bhíonn comhaontaithe aici;
- ▶ athbhreithnithe rialta ag an gComhairle ar thuairiscí airgeadais tréimhseacha agus bliantúla a léiríonn feidhmíocht airgeadais in aghaidh réamhaisnéisí;

- ▶ spriocanna a leagan síos le feidhmíocht airgeadais agus feidhmíocht eile a thomhas;
- ▶ cloí le treoirlínte chun soláthar don earnáil phoiblí.
- ▶ athbhreithnithe rialta ag an gComhairle ar thionscadail taighde seachtaracha.

Leanann an Coiste Iníúchoireachta ag déanamh athbhreithniú ar chúrsaí rialaithe inmheánacha agus ar shaincheisteanna a d'ardaigh an tArd-Reachtaire Cuntas agus Ciste.

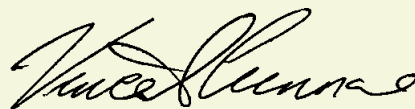
I 2015, bhuail an Coiste Iníúchoireachta le cheile trí huaire. Ina theannta sin, an tuarascáil ar chórais rialaithe inmheánacha don bhliain 2015 a chuir an tIníúcháir Inmheánach ar fáil tugadh do bhaill na Comhairle í.

Tá monatóireacht agus athbhreithniú na Comhairle ar éifeachtúlacht an chórais rialaithe airgeadais inmheánaigh coinnithe ar an eolas trí obair an iníúcháir inmheánaigh, trí obair an Chláraitheora agus oifigigh eile laistigh den Institiúid atá freagrach as creat oibre rialaithe airgeadais cuí a fhorbairt agus a chothabháil, agus trí thuairimí a dhéanann an Coiste Iníúchta agus an tArd-Reachtaire Cuntas agus Ciste ina litir bhainistíochta no i dtuairiscí eile.

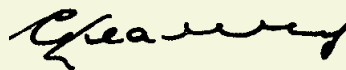
Athbhreithniú Bliantúil ar Rialacháin

Dearbhaím go ndearna an Bord athbhreithniú ar éifeachtachas chórais rialaithe airgeadais inmheánaigh na hInstitiúide sa bhliain dár críoch 31ú Nollaig 2015.

Sínithe thar ceann Chomhairle na hInstitiúide



Vincent Cunnane
Cathaoirleach - Comhairle Na hInstitiúide



Cecil Keaveney
Cláraithheoir

24 Meitheamh 2016

Ard-Reachtaire Cuntas agus Ciste

Tuarascáil le cur i láthair Thithe an Oireachtais

Institiúid Ard-Léinn Bhaile Átha Cliath

Tá ráitis airgeadais Institiúid Ard-Léinn Bhaile Átha Cliath don bhliain dar críoch 31 Nollaig 2015 iniúchta agam faoin Acht Um Institiúid Ard-Léinn, 1940. Tá na ráitis airgeadais comhdhéanta den Ráiteas ar Ioncam agus Caiteachas agus Cúlchistí Ioncaim Coinnithe, an Ráiteas as Shuíomh Airgeadais, an Ráiteas ar Shreabhadh Airgid agus na nótaí gaolmhara. Ullmhaíodh na ráitis airgeadais san fhoirm a leagtar amach faoi Alt 28 den Acht Um Institiúid Ard-Léinn, 1940 agus i gcomhréir le Cleachtas Cuntasaíochta a nGlactar Leis go Coitianta.

Freagrachtaí na Comhairle

Tá an Chomhairle freagrach as na ráitis airgeadais a ullmhú, as a chinntiú go dtugtar leo léargas fíor agus cothrom, agus as rialtacht na n-idirbheart a chinntiú

Freagrachtaí an Ard-Reachtaire Cuntas agus Ciste

Is í an fhreagracht atá agamsa na ráitis airgeadais a iniúchadh agus tuairisc a thabhairt orthu de réir dlí is infheidhme.

Déantar m'iniúchadh a riar trí thagairt a dhéanamh do na nithe ar leith is gá a chur san áireamh i ndáil le cúrsaí bainisteoireachta agus oibriúcháin a ghabhann le Comhlachtaí Stáit.

Déantar m'iniúchadh a riar de réir Caighdeán Idirnáisiúnta maidir le hIniúcháireacht (Ríocht Aontaithe agus Éire) agus de réir Caighdeán Eiticíúil an Bhoird um Chleachtas Iniúcháireachta d'Iniúcháirí.

Réimse Iniúchta na Ráiteas Airgeadais

Cuimsíonn iniúchadh fianaise a fháil faoi na suimeanna agus na nochtuithe sna ráitis airgeadais, ionas go mbeadh leordhóthain fianaise ann a d'fhágfadh cinnteacht réasúnach ann go bhfuil na ráitis airgeadais saor ó mhíríteas ábhartha, cibé acu calaóis nó neamhrialtacht is cúis leis sin. Áirítear leis seo measúnú ar

- ▶ cé acu an n-oireann na beartais chuntasaíochta don bhail atá ar chúrsaí na hInstitiúide, ar feidhmíodh na beartais sin ar bhealach leanúnach agus ar foilsíodh iad ar bhealach sásúil
- ▶ réasúntacht meastacháin suntasacha chuntasaíochta a rinneadh in ullmhúchán na ráiteas airgeadais, agus
- ▶ leagan amach na ráiteas airgeadais ar an iomlán.

Féachaim freisin le fianaise a fháil faoi rialtacht na n-idirbheart airgeadais le linn iniúchta.

- ▶ Ina theannta sin, léim Tuarascáil Bhliantúil na hInstitiúide d'fhonn neamhréireachtaí ábhartha leis na ráitis airgeadais iniúchta a aithint agus d'fhonn faisnéis ar bith a aithint atá

mícheart go hábhartha, de réir cosúlachtaí bunaithe ar an eolas atá faighte agam le linn m'iniúchta, nó neamhréireach go hábhartha leis. Má thagaim ar an eolas faoi mhíríteis ábhartha dealraitheacha nó neamhréireachtaí cuirim na himpleachtaí san áireamh i mo thuarascáil.

Tuairim ar na Ráitis Airgeadais

I mo thuairimse, maidir leis na ráitis airgeadais:

- ▶ tugtar leo léargas fíor agus cothrom ar shócmhainní, dliteanais agus suíomh airgeadais na hInstitiúide ag 31 Nollaig 2015 agus ar a hioncam agus ar a caiteachas don bhliain 2015; agus
- ▶ ullmhaíodh i gceart iad i gcomhréir le cleachtas cuntasaíochta a nglactar leis go coitianta.

I mo thuairimse, bhí taifid chuntasaíochta na hInstitiúide imleor chun iniúchadh áisiúil agus cuí a dhéanamh ar na ráitis airgeadais. Tá na ráitis airgeadais ag teacht leis na taifid chuntasaíochta.

Nithe ar a dTuairiscím Eisceachtaí

Tuairiscím eisceachtaí mura bhfuair mé an fhaisnéis agus na mínithe ar fad a theastaigh uaim do m'iniúchadh, nó má aimsím

- ▶ aon chás ábhartha nár feidhmíodh suimeanna airgid chun na gcríoch a bhí beartaithe nó sa chás nár lean na hidirbhearta do na húdaráis a rialaíonn iad, nó
- ▶ nach bhfuil an fhaisnéis a tugadh i dTuarascáil Bhliantúil na hInstitiúide ag teacht leis na ráitis airgeadais gaolmhara nó leis an eolas atá faighte agam le linn dom an t-iniúchadh a dhéanamh, nó
- ▶ nach léiríonn an Ráiteas maidir le Rialú Inmheánach Airgeadais comhlíonadh na hInstitiúide leis an gCód Cleachtas maidir le Rialachas Comhlachtaí Stáit, nó
- ▶ go bhfuil nithe ábhartha eile maidir leis an modh a riaradh gnó poiblí.

Níl a thuilleadh le tuairisciú agam maidir leis na nithe seo lena mbaineann tuairisceoireacht eisceachtaí.

Colette Drinan

Le haghaidh agus thar ceann an Ard-Reachtaire Cuntas agus Ciste

29 Meitheamh 2016

Ráiteas Ioncaim agus Caiteachais agus Cúlchistí Ioncaim Coinnithe

	Notaí	2015 €	2014 € Athshonraithe
Ioncam			
Deontas Oireachtais		6,136,001	6,201,000
Glan-mhaoiniú iarchurtha do shochair scoir	13.c	748,688	1,338,169
Díolacháin Foilseachán		37,550	44,507
Tionscadail	4	1,618,398	1,533,675
Eile	5	42,411	39,095
		8,583,048	9,156,446
Aistriú (chuig)/ó Cúlchiste Caipitil	7	252,773	379,445
		8,835,821	9,535,891
Caiteachas			
	3		
Scoil an Léinn Cheiltigh		1,075,067	1,263,670
Scoil na Fisice Teoiriciúla		855,657	801,333
Scoil na Fisice Cosmaí		2,770,948	2,591,913
Riarachán		4,000,824	4,728,203
		8,702,496	9,385,119
(Easnamh)/Barrachas don bhliain		133,325	150,772
Iarmhéid amhail an 1 Eanáir		657,772	507,000
Iarmhéid amhail an 31 Nollaig		791,097	657,772
Ráiteas ar Ioncam Cuimsitheach			
		2015 €	2014 € Athshonraithe
(Easnamh)/Barrachas don bhliain		133,325	150,772
Gnóthachain/(cailteanas) ó thaití ar oibleagáidí sochair scoir		1,256,000	(309,000)
Athruithe i bhfoshuíomhanna atá mar bhonn le luach reatha na n-oibleagáidí sochair scoir		2,153,000	(8,033,000)
Gnóthachan/(Cailteanas) Achtúireach ar Oibleagáidí Sochair Scoir		13.b	3,409,000
		3,409,000	(8,342,000)
Leasú ar Mhaoiniú Sochair Scoir Iarchurtha		(3,409,000)	8,342,000
(Gnóthachan) iomlán aitheanta don bhliain		133,325	150,772

Is cuid de na ráitis airgeadais seo iad an Ráiteas ar Shreabhadh Airgid agus nótaí 1 go 20



Werner Nahm
Comhalta Den Chomhairle

24 Meitheamh 2016



Liam Breatnach
Comhalta Den Chomhairle

24 Meitheamh 2016

Ráiteas faoi Staid Airgeadais

	Notaí	2015 €	2014 € Athshonraithe
Sócmhainní			
Sócmhainní Seasta: Maoin, Fearas agus Treallamh	6	1,100,130	1,352,903
Sócmhainní Reatha:			
Airgead sa Lámh agus ag an mBanc		5,800,626	2,464,057
Infháltais	9	265,304	173,199
Infháltais Tionscadail	4(a)	26,219	36,883
Sócmhainní Iomlána		7,192,279	4,027,042
Lúide Dliteanais			
Nithe Iníoctha - Suimeanna le hóc laistigh de bhliain amháin			
Nithe Iníoctha	8	1,010,370	872,095
Nithe Tionscadail Iníoctha	4.a	4,262,982	1,116,589
Creidiúnaithe - méideanna atá dlite tar éis bliana amháin	8	27,700	27,683
Dliteanais Iomlána Roimh Phinsin		5,301,052	2,016,367
Sócmhainní lúide dliteanais Roimh Phinsin			
Maoiniú an Phinsin Iarchurtha	13.c	51,210,000	53,870,000
Dliteanais Phinsin	13.b	(51,210,000)	(53,870,000)
		0	0
Sócmhainní Glana		1,891,227	2,010,675
Maoinithe ag:			
Cuntas Ioncaim agus Caiteachais		791,097	657,772
Cúlchiste Caipitil	7	1,100,130	1,352,903
		1,891,227	2,010,675

Is cuid de na ráitis airgeadais seo é an Ráiteas Beartais Cuntasaíochta agus na nótaí ó 1 go dtí 20.



Werner Nahm
Comhalta Den Chomhairle

24 Meitheamh 2016



Liam Breatnach
Comhalta Den Chomhairle

24 Meitheamh 2016

Ráiteas Sreabhadh Airgid

	Nótaí	2015 €	2014 € Athshonraithe
Réiteach (easnamh)/barrachais oibríochta chuig glan-insreabhadh airgid ó ghníomhaíochtaí oibríochta			
(Easnamh)/Barrachas don bhliain		133,325	150,772
Ús infhaighte	5	(8,121)	(19,979)
Méadú/(Laghdú) ar Nithe Iníoctha		138,292	(658,448)
(Méadú)/Laghdú ar Infháltais		(92,105)	5,082
Glan-(laghdú)/ardú i gCláir Thaighde agus Táillí		3,157,057	(453,641)
Dímheas	6	400,799	440,087
Aistriú Cúlchiste Caipitil	7	(252,773)	(379,445)
Caillteanas ar dhiúscairt		831	117
Glan(eis-sreabhadh)/insreabhadh Airgid tirim ó ghníomhaíochtaí oibríochta		3,477,305	(915,455)
Ráiteas Sreabhadh Airgid			
Glan(eis-sreabhadh)/insreabhadh airgid tirim ó ghníomhaíochtaí oibríochta		3,477,305	(915,455)
Aischiú ar infheistíochtaí agus seirbhísíú airgeadais			
Ús Bainc Infhaighte	5	8,121	19,979
Caiteachas Caipitiúil			
Ceannach Sócmhainní Inláimhsithe	6	(148,857)	(60,759)
(Laghdú)/Ardú ar Airgead		3,336,569	(956,235)
Réiteach glaninsreabhadh airgead tirim chuig gluaiseacht i nglanchistí			
(Laghdú)/Ardú ar Airgead Tirim		3,336,569	(956,235)
Iarmhéid faoin 1 Eanáir		2,464,057	3,420,292
Iarmhéid faoin 31 Nollaig		5,800,626	2,464,057
Anailís ar athrú i nglanchistí			
			Airgead infhaighte sa Bhanc
			€
I dtús na bliana 2015			2,464,057
Sreabhadh Airgid			3,336,569
Ag deireadh na bliana 2015			5,800,626

Is cuid de na ráitis airgeadais seo é an Ráiteas Beartais Cuntasaíochta agus na nótaí ó 1 go dtí 20.



Werner Nahm
Comhalta Den Chomhairle
24 Meitheamh 2016



Liam Breatnach
Comhalta Den Chomhairle
24 Meitheamh 2016

Nótaí do na Ráitis Airgeadais

1. Polasaithe Chuntasaíochta

Bunaíodh an Institiúid faoin Acht um Institiúid Ard-Leighinn, 1940. Áirítear ar a cuid feidhmeanna saoráidí a sholáthar le hard-léinn a chur chun cinn tuilleadh agus le taighde a dhéanamh i mbrainsí speisialtachta eolais. Tá trí Scoil inti - Scoil an Léinn Cheiltigh, Scoil na Fisice Teoiriciúla agus Scoil na Fisice Cosmaí.

a) Bunús Cuntasaíochta

Seo é an chéad chnuasach de ráitis airgeadais ullmhaithe ag Institiúid Ard-Léinn Bhaile Átha Cliath i gcomhréir le caighdeán chuntasaíochta eisithe ag an gComhairle Tuairiscithe Airgeadais, lena n-áirítear FRS 102 “An Caighdeán Tuairiscithe Airgeadais is infheidhme sa Ríocht Aontaithe agus I bPoblacht na hÉireann” (“FRS 102”). D’aistrigh an Institiúid ó GAAP na hÉireann agus na Ríochta Aontaithe, mar a bhí, chuig FRS 102 an 1 Eanáir 2014. Tugtar míniú ar an gcaoi a rinne aistriú chuig FRS 102 difear don suíomh airgeadais tuairiscithe agus d’fheidhmíocht airgeadais i nóta 2. Chun ráitis airgeadais a ullmhú i gcomhréir le FRS 102 ní mór meastacháin criticiúla cuntasaíochta áirithe a úsáid. Éilítear leis freisin go ndéanfaidh an bhainistíocht breithiúnas agus beartais chuntasaíochta na hInstitiúide á gcur i bhfeidhm. (Féach Nóta 19).

Ullmhaíodh na ráitis airgeadais ar bhonn fabhráithe faoin gcoinbhinsiún costais stairiúil agus comhlíonann siad caighdeán tuairiscithe airgeadais na Comhairle Tuairiscithe Airgeadais.

Cuireadh na beartais chuntasaíochta seo a leanas i bhfeidhm:

b) Deontais Oireachtais

Taispeántar ioncam ar bhunús airgid isteach.

c) Sócmhainní Seasta

Is éard is Sócmhainní Seasta ann ná troscán, trealamh, ríomhairí agus mótarfheithiclí na hInstitiúide agus taispeántar iad ag costas lúide dímhéas carntha. Is mar seo a leanas atá na rátaí dímhéasa, ríofa ar bhunús dronlíneach:-

Troscán agus Trealamh	10%
Ríomhairí	25%
Mótarfheithiclí	25%

Faightear áitribh atá i seilbh na hInstitiúide ar léas ó Oifig na nOibreacha Poiblí.

d) Cúlchiste Caipítíl

Léiríonn cúlchiste caipítíl luach neamh-amúchta ioncain a úsáidtear le Sócmhainní Seasta a cheannach.

e) Leabharlann

Díscríobhtar caiteachas ar leabhair leabharlainne agus ábhair sa bhliain a dtabhaítear é.

f) Foilseacháin

Díscríobhtar caiteachas ar fhoilseacháin sa bhliain a dtabhaítear é.

g) Aoisliúntas

Feidhmíonn Institiúid Ard-Léinn Bhaile Átha Cliath scéim phinsin shochair shonraithe a mhaoinítear go bliantúil ar bhonn íoc mar a imíonn tú ó chistí atá ar fáil dó, lena n-áirítear cistí a chuireann an Roinn Oideachais agus Scileanna ar fáil agus ó ranníocaíochtaí a asbhaintear ó thuarastail foirne.

Feidhmíonn Institiúid Ard-Léinn Bhaile Átha Cliath freisin an Scéim Pinsin Seirbhíse Poiblí Aonair (Scéim Aonair), is í sin scéim sochair scoir le sochair sainithe do do sheirbhísigh phoiblí inphinsin a ceapadh ar 1 Eanáir 2013 nó ina dhiaidh. Cuirtear ranníocaíochtaí bhail na Scéime Singil ar aghaidh chuig an Roinn Caiteachais Phoiblí agus Athchóirithe.

Nótaí do na Ráitis Airgeadais (ar leanúint)

1. Polasaithe Chuntasaióchta (ar leanúint)

Léiríonn costais phinsin na sochair phinsin a thuilleann fostaithe sa tréimhse agus léirítear iad glan ar ranniocaíochtaí pinsin foirne a bhíonn coinnte ag Institiúid Ard-Léinn Bhaile Átha Cliath. Aithnítear suim a chomhfhreagraíonn don mhuirear pinsin mar ioncam sa mhéid go bhfuil sé inaisghabhála go ndéantar é a fhritháireamh in aghaidh deontais a bhíonn faighte sa bhliain chun íocaíochtaí pinsin a ghlanadh.

Tá gnóthachain nó cailteanais achtúireacha ar dhliteanais na scéime léirithe sa Ráiteas ar Ghnóthachain agus Cailteanais Aitheanta agus aithnítear coigeartú comhfhreagrach sa mhéid is féidir a aisghabháil ón Roinn Oideachais agus Scileanna.

Léiríonn na dliteanais phinsin luach reatha na n-íocaíochtaí pinsin don todhchaí atá tuillte ag an bhfoireann go dtí seo. Léiríonn maoiniú pinsin iarchurtha an tsócmhainn chomhfhreagrach a bheidh aisghafa i dtréimhsí amach anseo ón Roinn Oideachais agus Scileanna.

h) Tionscadail

Faigheann Institiúid Ard-Léinn Bhaile Átha Cliath maoiniú seachtarach ó thionscal, ó chomhlachtaí rialtais, agus ó Choimisiún na hEorpa. Coinnítear cairt chuntais i gcás gach tionscadail. Léirítear ioncam agus caiteachas ar tionscadail sna ráitis airgeadais sa bhliain lena mbaineann siad. Taispeántar barrachas nó easnamh tionscadail sna ráitis airgeadais nuair a léirítear sin.

i) Infháltais

Tomhaistear infháltais ghearrthéarma ag praghas an idirbhirt, lúide bearnú ar bith.

j) Nithe Iníochta

Tomhaistear nithe iníochta gearrthéarma ag praghas an idirbhirt.

k) Airgead Tirim agus Coibhéisí Airgid

Léirítear airgead tirim le hairgead ar láimh agus tascí le hinstiúidí airgeadais iníochta gan pionós ar fhógra nach mó ná 24 uair a' chloig. Is éard is coibhéisí airgid ann infheistíochtaí an-leachtacha a thagann in aibíocht tráth nach mó ná trí mhí ó dháta an tsealbhaite agus atá inaistrithe go héasca chuig suimeanna aitheanta airgid le riosca neamhsuntasach d'athrú sa luach.

l) Ionstraimí Airgeadais

Ní théann an Institiúid isteach ach in idirbhearta um bhunionstraimí airgeadais a mbíonn aitheantas ar shócmhainní agus dliteanais airgeadais mar thoradh orthu amhail cuntais trádála agus cuntais infhála agus iníochta eile. Taifeadtar bunionstraimí airgeadais ar phraghas an idirbhirt.

m) Pá Saoire

Aithnítear dliteanas go feadh mhéid teidlíochta pá saoire nár úsáideadh atá fabhráithe ar dháta an chláir chomhardaithe agus tógtha ar aghaidh chuig tréimhsí sa todhchaí. Tomhaistear é seo ag costas tuarastail neamhslasainithe na teidlíochta saoire sa todhchaí agus fabhraítear é ar dháta an chláir chomhardaithe.

n) Léasanna Oibriúcháin

Gearrtar cíosanna atá iníochta faoi léasanna oibriúcháin ar an gCuntas Ioncaim agus Caiteachais de réir mar a thabhaítear iad thar téarma an léasa.

o) Airgeadra Feidhmiúil

Is é an euro airgeadra feidhmiúil agus láithritheach na hInstitiúide.

p) Deontais Neamh-Thionscadail.

Taifeadtar deontais ó thríú páirtithe sna ráiteas airgeadais ag baint úsáide as an Modh Fabhrúithe agus leithdháiltear ar ioncam iad sa chaoi is go meaitseáiltear iad leis an gcaiteachas ábhartha lena mbaineann siad.

Nótaí do na Ráitis Airgeadais (ar leanúint)

2. Aistriú chuig FRS 102

Roimh an 1 Eanáir 2014, d'ullmhaigh Institiúid Ard-Léinn Bhaile Átha Cliath a ráitis airgeadais faoi GAAP na hÉireann a bhíodh ann. Ón 1 Eanáir 2014, chinn an Institiúid a ráitis airgeadais bhliantúla a chur i láthair i gcomhréir le FRS 102.

Tá na figiúirí i dtaca le ráitis airgeadais 2014 athráite chun glacadh na hInstitiúide le FRS 102 ón dáta aistrithe 1 Eanáir 2014 a léiriú.

Meastacháin Chuntasaíochta

I gcomhréir le FRS 102, mar ghlacadóir céaduaire, ní dhearna an Institiúid meastacháin a leasú chun faisnéis nua a léiriú a tháinig chun solais i ndiaidh an mheastacháin bhunaidh.

Is é seo a leanas an réiteach ar an mbarrachas a ullmhaíodh i gcomhréir le GAAP na hÉireann agus i gcomhréir le FRS 102 don bhliain dar críoch 31 Nollaig 2014 agus an réiteach ar mhéid na gcúlchistí iomlána an 31 Nollaig 2014, roimh cur i bhfeidhm FRS 102 agus ina dhiaidh:

	Barrachas don bhliain dar críoch 31 Noll 2014 €	Cúlchistí mar a bhí 1 Ean 2014 €	Cúlchistí mar a bhí 31 Noll 2014 €
Mar a tuairiscíodh faoi GAAP na hÉireann			
Cuntas ioncaim agus caiteachais	200,589	661,047	861,636
	<hr/>	<hr/>	<hr/>
	200,589	661,047	861,636
Tionchar déanta ag:			
(a) Fabhbrú phá saoire	(49,817)	(154,047)	(203,864)
	<hr/>	<hr/>	<hr/>
	(49,817)	(154,047)	(203,864)
Mar a tuairiscíodh faoi FRS 102			
Cuntas ioncaim agus caiteachais	150,772	507,000	657,772
	<hr/>	<hr/>	<hr/>
	150,772	507,000	657,772

(a) Fabhbrú phá saoire

GAAP na hÉireann: Faoi GAAP na hÉireann níor aithníodh soláthairtí d'fhabhruithe pá saoire agus gearradh pá saoire ar an ráiteas ioncaim agus caiteachais de réir mar a íocadh é.

FRS 102: Éilítear FRS 102 go ngearrfaí sochair ghearrthearma d'fhostaithe ar an ráiteas ioncaim agus caiteachais de réir mar a fhaightear seirbhís an fhostaithe.

Tionchar: Mar thoradh air seo, d'aithin an Institiúid dliteanas as pá saoire €154,047 ar aistriú chuig FRS 102. Sa bhliain go dtí an 31 Nollaig 2014, mhéadaigh an sliteanas seo faoi €49,817 agus aithníodh an méadú sa ráiteas ioncaim agus caiteachais. Ba é €203,864 an dliteanas um phá saoire ag 31 Nollaig 2014.

Nótaí do na Ráitis Airgeadais (ar leanúint)

3. Anailís Shonraithe d'Ioncam & Caiteachas don bhliain dár críoch 31/12/2015

IONCAM	Nótaí	Léann	Fisic	Fisic	Riarachán	2015	2014
		Cheilteach	Theoiriciúil	Chosmach		lomlán	lomlán
		€	€	€	€	€	€
Deontais Oireachtais		1,466,340	951,355	2,246,667	1,471,639	6,136,001	6,201,000
*Glanmhaoiniú iarchurtha do Shocahir Pinsin	13.c	(496,319)	(105,186)	(743,538)	2,093,731	748,688	1,338,169
Díolacháin Foilseachán		37,550	-	-	-	37,550	44,507
Ioncam Tionscadail	4.a	53,934	14,611	1,549,853	-	1,618,398	1,533,675
Ioncam Eile	5	60	800	2,170	39,381	42,411	39,095
		1,061,565	861,580	3,055,152	3,604,751	8,583,048	9,156,446
Aistriú (chuig) ó Chúlchiste Caipitil		-	-	-	252,773	252,773	379,445
		1,061,565	861,580	3,055,152	3,857,524	8,835,821	9,535,891
CAITEACHAS							
Costais Phárolla	10	932,797	771,421	1,414,327	608,491	3,727,036	4,063,624
*Costais Sochair Scoir	13.a	(21,733)	(31,302)	(40,036)	2,235,042	2,141,971	2,494,429
*Costais um Tionascadal Sochair Scoir	13.a	-	-	(2,392)	-	(2,392)	(2,299)
Costais Tionscnamh	4.a	49,393	10,686	1,218,504	-	1,278,583	989,412
Stóráil Leabharlaine agus Leabhar		45,550	70,365	46,538	-	162,453	161,806
Dímheas	6	-	-	-	400,799	400,799	440,087
Cíos, Rátaí agus Árachas		-	-	-	199,165	199,165	200,212
Costais Ghinearálta	11	17,981	2,064	25,322	140,127	185,494	309,959
Costais Taistil agus Seimineáir		12,245	28,458	57,748	6,069	104,520	111,480
Cothabháil Áitribh agus Slándáil		-	-	-	168,751	168,751	238,311
Costais ríomhairí agus Idirlín		3,228	2,606	44,622	59,084	109,540	153,452
Breosla Solas agus Cumhacht		-	-	-	146,995	146,995	150,537
Post agus Teileafón		-	-	-	25,674	25,674	24,338
Páipéarachas		8,041	1,359	6,315	6,532	22,247	22,050
Foilseacháin		26,827	-	-	-	26,827	19,082
Fógraíocht		738	-	-	2,665	3,403	5,213
Mion Trealamh Oifige		-	-	-	599	599	3,309
Caillteanas ar dhiúscairt	7	-	-	-	831	831	117
		1,075,067	855,657	2,770,948	4,000,824	8,702,496	9,385,119
BARRACHAS/(EASNAMH) DON BHLIAIN		(13,502)	5,923	284,204	(143,300)	133,325	150,772
Iarmhéid amhail an 1 Eanáir		261,720	97,546	1,588,475	(1,086,106)	657,772	507,000
Iarmhéid amhail an 31 Nollaig		248,218	103,469	1,872,679	(1,229,406)	791,097	657,772

Nóta (a)

*Léiriú is ea glanshuim 13c agus 13a ar an aoisliúntas a íocadh luíde ranníocaíochtaí a asbhaineadh laistigh gach ceann de na scoileanna agus rannóga.

Nóta (b)

Cionroinneadh costais a bhaineann go díreach le taighde (m.sh. pá, leabharlann, costais ríomhaire, taisteal) ar an scoileanna. Gearradh forchostais ar nós cíos, árachas, fónais agus cothabháil maoine ar Riarachán.

Nóta (c) Deontas i gCúnamh

Fuarthas suim €6,136,001 (2014: €6,201,000) ón Roinn Oideachais agus Scileanna. Tugann an Roinn Oideachais agus Scileanna an deontas i gcomhair dliteanas faoi chostais pá agus neamhphá ghinearálta agus tarraingíonn an Institiúid aníos í ar bhonn bliantúil.

Nótaí do na Ráitis Airgeadais (ar leanúint)

4.(a) Tionscadail

	2015 €	2014 €
Iarmhéideanna Tosaigh	1,079,706	1,533,347
Admhálacha	4,775,455	1,080,034
	5,855,161	2,613,381
Iarmhéideanna Deiridh (Féichiúnaithe €26,219 Creidiúnaithe €4,262,982)	(4,236,763)	(1,079,706)
Curtha i bhfeidhm mar ioncam	1,618,398	1,533,675
Leithroinnt Ioncaim		
Scoil an Léinn Cheiltigh	53,934	80,832
Scoil na Fisice Teoiriciúla	14,611	6,422
Scoil na Fisice Cosmaí	1,549,853	1,446,421
	1,618,398	1,533,675
Riarachán	-	-
Ioncam Iomlán Thionscadal	1,618,398	1,533,675

Costais Tionscadal

	Léann Cheilteach €	Fisic Theoiriciúil €	Fisic Chosmach €	2015 Total €	2014 Iomlán €
Íocaíochtaí chuig Páirtithe/Comhlachais	11,100	-	75,000	86,100	119,232
Tuarastail/Scoláireachtaí	37,321	-	843,146	880,467	601,923
Taisteal	957	9,063	144,483	154,503	165,694
Eile	15	1,623	155,875	157,513	102,563
Costas Iomlán Tionscadal	49,393	10,686	1,218,504	1,278,583	989,412

4.(b) Sonraí Tionscadail

	Udarás Cistiúcháin	Iarmhaid Tosaigh €	Admhálacha €	Caiteachas Aisfhillteach €	Curtha i bhfeidhm mar Ioncam (Caipiteal san áireamh) €	Iarmhaid Deiridh €	Caipiteal €
Scoil an Leinn Cheiltigh							
Irish Script on Screen		14,637	-	15	15	14,622	-
Celtic Summer School		8,793	-	700	5,240	3,553	-
Ogham	Dept. Arts	4,914	40,000	48,678	48,679	(3,765)	-
Iomlán-Leánn Ceilteach		28,344	40,000	49,393	53,934	14,410	-

Nótaí do na Ráitis Airgeadais (ar leanúint)

4.(b) Sonraí Tionscadail (ar leanúint)

	Udarás Cistiúcháin	Iarmhéid Tosaigh €	Admhálacha €	Caiteachas Aisfhillteach €	Curtha I bhfeidhm mar Ioncam (Caipiteal san áireamh) €	Iarmhéid Deiridh €	Caipiteal €
Scoil na Fisce Teoiriciúla							
Bethe Ansatz	SFI	11,233	-	831	831	10,402	-
T.Tchrakian	EC	11,034	-	1,828	1,828	9,206	-
Veselin Filev Inspire Award	SFI	5,858	-	-	5,858	-	-
M.Ihl Fellow	IRCSET	10,124	(9,910)	-	214	-	-
G. Kells	IRCSET	(450)	450	-	-	-	-
M.Leitner Conference	Various	-	5,880	8,027	5,880	-	-
Iomlán-FisicTheoiriciúil		37,799	(3,580)	10,686	14,611	19,608	-
Scoil na Fisce Cosmaí							
Gamma Ray Bursts	SFI	13,543	-	-	13,543	-	13,543
Iomlán-Réalteolaíocht		13,543	-	-	13,543	-	13,543
Nam Conference	A. Observ'tory	29,769	-	-	-	29,769	-
Jetset	EC	1,900	-	1,832	1,900	-	-
GNM	SFI	9,622	-	-	-	9,622	-
E-Inis -Cycle 4	PRTL I	123,855	-	8,066	123,855	-	-
Pic Simulations	SFI	57,748	-	2,588	57,748	-	4,631
D.Coffey Fellow	IRCSET	6,350	-	-	6,350	-	-
KM3Net -PP	EC	4,366	-	1,730	3,231	1,135	1,500
E.Whelan Inspire	IRCSET	6,749	-	-	6,749	-	-
NGST Project	ESA	828	75,954	60,857	62,865	13,917	2,008
KVM3Net	EC	6,941	-	4,908	4,908	2,033	-
Valenti EC Reintegration	EC	7,986	-	2,500	7,986	-	-
Aleks Scholz-Brown Dwarfs	SFI	12,041	13,979	4,900	4,900	21,120	-
Origin of Jets	SFI	17,493	-	7,557	7,557	9,936	-
EASY T. Ray 2014	SFI	199,979	313,594	250,145	270,447	243,126	20,303
E.O' Gorman Fellow	IRC	-	22,947	10,223	10,223	12,724	-
Horizon 2020 Catalyst MKID	SFI	-	16,200	-	-	16,200	-
Iomlán-Réaltfhisic		485,627	442,674	355,306	568,719	359,582	28,442

Nótaí do na Ráitis Airgeadais (ar leanúint)

4.(b) Sonraí Tionscadail (ar leanúint)

	Udarás Cistiúcháin	Iarmhéid Tosaigh €	Admhálacha €	Caiteachas Aisfhillteach €	Curtha I bhfeidhm mar Ioncam (Caipiteal san áireamh) €	Iarmhéid Deiridh €	Caipiteal €
Samtex	Industry	13,766	-	6,250	6,250	7,516	-
Geo External Funds	Industry	5,835	-	281	5,835	-	-
Isle 2	SFI	5,417	-	-	5,417	-	-
Geophysics Schools							
Seismology	Various	8,955	799	-	-	9,754	-
Dynamics of Continuity	SFI	2,557	-	(2,005)	(2,005)	4,562	-
TopoMed	IRCSET	8,008	-	7,828	8,008	-	-
Regional Seismic	SFI	3,955	-	-	-	3,955	-
CTBTO	Dept.For.Affairs	2,931	-	270	270	2,661	-
Irish Geoscience Graduate Prog.	Dept. Commun.	3,078	122,098	48,538	125,176	-	11,818
IRETHERM	SFI	180,800	-	138,581	136,189	44,611	-
GIANICE 11	SFI	57,400	-	17,112	17,112	40,288	-
SIRG E2174	SFI	37,504	101,888	95,131	95,131	44,261	-
ESA UWB Grant	ESA	32,664	-	3,021	7,240	25,424	4,219
WAXI	Industry	24,918	7,930	28,750	32,848	-	-
IRECCSEM	SFI	(36,433)	107,548	93,569	93,569	(22,454)	-
Crust	SFI	135,263	76,232	113,921	119,819	91,676	5,899
PIPCO	Industry	27,775	150,000	144,043	144,043	33,732	-
Winterc-3D Fullea Fellow	EC	-	122,113	65,427	68,370	53,743	2,943
4DARTIC	Industry	-	24,000	19,428	19,428	4,572	-
ICRAG	SFI	-	656,736	64,790	66,628	590,108	1,839
Shallow Crust Fellow	SFI	-	46,591	18,263	18,263	28,328	-
V. Rath GSI Short Call	GSI	-	12,500	-	-	12,500	-
P. Arroucau GSI Short Call	GSI	-	11,750	-	-	11,750	-
iMARL Infrastructure	SFI	-	2,856,176	-	-	2,856,176	-
Iomlán-Geoifisic		514,393	4,296,361	863,198	967,591	3,843,163	26,718
Iomlán Físic Chosmach		1,013,563	4,739,035	1,218,504	1,549,853	4,202,745	68,703
Iomlán DIAS		1,079,706	4,775,455	1,278,583	1,618,398	4,236,763	68,703

Nótaí

Cuirtear fáiltas tionscadail i bhfeidhm mar ioncam tionscadail, ag leibhéal arb ionann an caiteachas bliantúil ag an tionscadal lena mbaineann siad. Léiriú is ea na comhorduithe dúnta thuas ar forchostas a tuilleadh go dáta agus maoiniú roimh ré chun freastal ar thiomantais airgeadais i 2016. Léiríonn an colún caipitil an caiteachas ar shócmhainní seasta i rith 2015.

Nótaí do na Ráitis Airgeadais (ar leanúint)

5. Ioncam Eile

	2015 €	2014 €
Ús bainc	8,121	19,979
Táillí & Deontais	1,800	11,399
Eile	32,490	7,717
Iomlán	42,411	39,095

6. Sócmhainní Seasta

	Troscán & Trealamh €	Mótarfheithicilí €	Ríomhairí €	Iomlán €
Costais				
Iarmhéid Tosaigh 1/1/2015	3,761,249	45,700	2,274,907	6,081,856
Breiseanna *	22,702	15,131	111,024	148,857
Riartha	-	(45,700)	(16,737)	(62,437)
	3,783,951	15,131	2,369,194	6,168,276
Dímheas				
Iarmhéid Tosaigh 1/1/2015	2,730,871	44,683	1,953,399	4,728,953
Muirear	222,478	1,813	176,508	400,799
Riartha	-	(44,869)	(16,737)	(61,606)
	2,953,349	1,627	2,113,170	5,068,146
Luach glan de réir na leabhar 31/12/2015	830,602	13,504	256,024	1,100,130
Luach glan de réir na leabhar 31/12/2014	1,030,378	1,017	321,508	1,352,903

Nota

* Caipitlítear na sócmhainní seasta de bhreis ar €1,000 I leabhair DIAS.

7. Cúlchiste Caipitil

	2015 €	2014 €
Iarmhéid amhail an 1 Eanáir	1,352,903	1,732,348
Aistriú ó/(chuig) Cuntas Ioncaim agus Caiteachais		
Ioncam leithroinnte le sócmhainní seasta a fháil (Maoinithe ag Tionascadal)	68,703	35,417
Ioncam leithroinnte le sócmhainní seasta a fháil (Maoinithe ag an Státchiste)	80,154	25,342
Amúchadh ag teacht le dímheas sócmhainní	(400,799)	(440,087)
Méid scaoilte ar dhiúscairtí	(831)	(117)
	(252,773)	(379,445)
Iarmhéid amhail an 31 Nollaig	1,100,130	1,352,903

Nótaí do na Ráitis Airgeadais (ar leanúint)

8. Creidiúnaithe - Méideanna atá dlite laistigh de bhliain amháin

	2015 €	2014 €
Creidiúnaithe Trádála	290,924	123,860
Fabhruithe	253,032	361,057
CBL	20,055	39,233
Nithe Iníoctha Ioncaim	133,921	131,623
Cuntas Rialaithe Sochair Scoir	312,438	216,322
	1,010,370	872,095
Creidiúnaithe dlite tar éis dhá mhí dhéag	2015 €	2014 €
Comhdhéanta as: Vernam Hull Bequest	25,239	25,223
Carmody Fund	2,461	2,460
	27,700	27,683

Tá an t-airgead a bhaineann leo seo sealbhaithe mar éarlais.

9. Féichiúnaithe

	2015 €	2014 €
Réamhíocaíochtaí	244,115	150,033
Infháltais ó Dhíolacháin Leabhar	1,241	1,511
Ilnithe	19,948	21,655
	265,304	173,199

10. Costais Phárolla

	Léann Cheilteach €	Fisic Theoiriciúil €	Fisic Chosmach €	Riar. €	2015 Iomlán €	2014 Iomlán €
Tuarastal/Pá	788,526	686,004	1,317,988	608,491	3,401,009	3,663,125
Scoláireachtaí	143,771	85,417	96,339	-	325,527	375,949
Cuairteoirí	-	-	-	-	-	23,950
Airgead Oinigh	500	-	-	-	500	600
	932,797	771,421	1,414,327	608,491	3,727,036	4,063,624

Nota

Tocadh luach €252,518 (2014:€253,145) laghduithe tabhaidh pinsin leis on Roinn Oideachais agus Scileanna I rith 2015. Líon Foirne 50.5 (2014:52.5), Líon ECF 55 (2014: 55).

Pá na bPríomhbhall Bainistíochta

Áiríonn na príomhbhaill bainistíochta an Cláráitheoir agus an fhoireann shinsearach bainistíochta as a raibh costas €599,765 (2014 €598,010) sa bhliain.

Nótaí do na Ráitis Airgeadais (ar leanúint)

11. Costais Ghinearálta

	Léann Cheilteach €	Fisic Theoiriciúil €	Fisic Chosmach €	Riar. €	2015 Iomlán €	2014 Iomlán €
Ilghnéitheach	8,461	-	20,548	23,654	52,663	136,528
Tionscnaimh cur chun cinn/Lóin	3,797	-	4,274	12,936	21,007	12,137
Táillí Gairmiúla	-	-	-	49,864	49,864	113,102
Oiliúint	5,723	2,064	500	3,304	11,591	1,826
Táille Iniúchta	-	-	-	18,000	18,000	18,800
Muirir Bhainc	-	-	-	1,479	1,479	2,368
Costais Cruinnithe Boird	-	-	-	25,840	25,840	20,124
Sláinte agus Sábháilteacht	-	-	-	5,050	5,050	5,074
	17,981	2,064	25,322	140,127	185,494	309,959

12. Léasáil

Léasanna Oibríochta

Tá na háitribh atá i seilbh na hInstitiúide ar léas ó Oifig na nOibreacha Poiblí. Is iad na háitribh a n-airítear ná Réadlann Dhún Sínce, 5 Cearnóg Mhuirfean, 9-10 Bóthar Burlington agus 31 Plás Mhic Liam. Tá téarma 83 bliana fágtha ar an léas do Réadlann Dhún Sínce agus athnuaitear na léasanna eile ar bhonn bliantúil. Is é tiomantas ar bhonn léasanna den sórt sin maidir le 2016 na €113,609.

Léasanna Oifig na nOibreacha Poiblí	Cíos Bliantúil €
Réadlann Dhún Sínce	330
5 Cearnóg Mhuirfean	5,022
9-10 Bóthar Burlington	50,167
31 Plás Mhic Liam.	58,090
	113,609

An 31 Nollaig 2015 bhí na híocaíochtaí léasa íosta seo a leanas ag an Institiúid faoi léasanna oibríocháin dochealaithe do gach ceann de na tréimhsí seo a leanas:

	2015 €	2014 €
Iníochta laistigh de bhliain amháin	113,609	113,609
Idir dhá bhliain agus cúig bliana	990	990
I ndiaidh cúig bliana	26,070	26,070

Nótaí do na Ráitis Airgeadais (ar leanúint)

13. Costais Sochair Scoir

a) Anailís ar na costais iomlána pinsin curtha chun dochair do Chaiteachas

	2015 (€'000)	2014 (€'000)
Costas na Seirbhíse Reatha	1,040	953
Ús ar Dhliteanais Sochair Pinsin	1,218	1,669
Ranníocaíochtaí Fostaí	(118)	(130)
	2,140	2,492

b) Gluaiseacht i nGlan-Dlíteanas Sochair Scoir i rith na bliana airgeadais

	2015 (€'000)	2014 (€'000)
Glan-Dlíteanas Sochair Pinsin amhail an 1 Eanáir	(53,870)	(44,190)
Costas na Seirbhíse Reatha	(1,040)	(953)
Costais Úis	(1,218)	(1,669)
(Gnóthachan)/cailteanas achtúireach	3,409	(8,342)
Sochair Pinsin íoctha sa bhliain	1,509	1,284
Glan-Dlíteanas Pinsin amhail an 31 Nollaig	(51,210)	(53,870)

c) Cistiú Iarchurtha do Phinsin

Aithníonn DIAS na méideanna seo mar shócmhainn a chomhfhreagraíonn don dlíteanas iarchurtha neamh-mhaoinithe do phinsin bunaithe ar na toimhdí thuaslaithe agus ar roinnt imeachtaí a tharla cheana. Áirítear ar na himeachtaí seo an bonn reachtúil chun sceim aoisliúntais a bhunú, agus an polasaí agus an cleachtas i ndáil le pinsin seirbhíse poiblí a mhaoiniú, lena n-áirítear ranníocaíochtaí ag fostóirí agus próiseas na meastacháin bliantúil. Cé nach bhfuil aon socrú foirmiúil maidir leis na méideanna sonracha seo déanta leis an Roinn Oideachais agus Scileanna, níl aon fhianaise ag DIAS nach leanfaidh an polasaí maoinithe seo de bheith ag freastal ar a leithéid de shuimeanna de réir an chleachtais reatha.

Sa Chuntas Ioncam agus Caitheachais, aithníodh an Glan-Mhaoiniú Iarchurtha do Phinsin sa bhliain mar seo leanas:

	2015 (€'000)	2014 (€'000)
Maoiniú inaisghabhála i ndáil le costais pinsin na bliana reatha	2,258	2,622
Deontas Stáit feidhmithe chun pinsinéirí a íoc	(1,509)	(1,284)
	749	1,338

Ba í €51.210 milliún (2014: €53.870 milliún) an tsócmhainn mhaoinithe iarchurtha do phinsin amhail an 31 Nollaig 2015.

d) Stair na nOibleagáidí faoin scéim shochair shainithe.

	2015 (€'000)	2014 (€'000)	2013 (€'000)
Oibleagáidí Shochair Shainithe.	51,210	53,870	44,190
(Gnóthachain)/cailteanais iarbhíre ar dhliteanais na scéime.	(1,246)	309	(487)
Céatadán de Luach Dhliteanais na Scéime.	(2.50%)	0.60%	(1.10%)

Tá (gnóthachan)/cailteanas achtúireach carnach €1,532,000 (2014: €4,941,000) aitheanta sa Ráiteas d'Iomlán na nGnóthachan agus na gCailteanas Aitheanta.

Nótaí do na Ráitis Airgeadais (ar leanúint)

13. Costais Sochair Scoir (ar leanúint)

e) Cur síos ginearálta ar an Scéim (ar leanúint)

Is é atá sa scéim pinsean ná socrú aoisliúntais shochair shonraithe chríoch-thuarastail le sochair agus ranníocaíochtaí sainithe ag rialacháin reatha scéime 'eiseamláire' na hearnála poiblí. Soláthraíonn an scéim pinsean (ochtóidí in aghaidh na bliana seirbhíse), aisce nó cnapshuim (trí hochtóidí in aghaidh na bliana seirbhíse) agus pinsin do chéilí agus leanaí. Is é an 65ú breithlá an Ghnáthaois Scoir agus tá baill a thosaigh roimh 2004 i dteideal éirí as ag aois 60 gan aon laghdú achtúireach ó aois 60. De ghnáth, méadaíonn na pinsin atá á n-íoc (agus pinsin iarchurtha) de réir bhoilsciú ginearálta na hearnála poiblí. Bunaíodh an luacháil a úsáideadh i gcás nochtadh faisnéise faoi FRS17 ar luacháil iomlán achtúireach a rinne achtúire neamhspleách cáilithe a chuir ceanglais FRS san áireamh chun dliteanais na scéime amháil an 31 Nollaig 2015 a mheasúnú.

Is í an Scéim Pinsin Seirbhíse Poiblí Aonair (Scéim Aonair) an scéim um shochair scoir le leas sainithe do sheirbhísí poiblí inphinsin a ceapadh an 1 Eanáir 2013 nó ina dhiaidh sin i gcomhréir leis an Acht um Pinsin na Seirbhíse Poiblí (Scéim Aonair agus Forálacha Eile) 2012. Tá foráil sa scéim do shochair scoir agus cnapshuim scoir bunaithe ar mheán gairme de phá inphinsin agus pinsin céile agus leanaí. Is í an aois pinsin íosta 66 bliana (ag éirí i gcomhréir le hathruithe in aois pinsin an Stáit). Áirítear áis luathscoir laghdaithe go hachtúireach ó aois 55. Ardaíonn Sochair Scoir atá á n-íoc i gcomhréir leis an bpraghasinnéacs tomhaltóirí.

Is mar a leanas a bhí na príomh-thoimhdí achtúireacha a úsáideadh:

	2015	2014	2013
Ráta na nArduithe Tuarastail	2.50%	2.50%	3.00%
Ráta Ardaithe i Sochair Pinsin atá á n-íoc	2.00%	2.00%	2.50%
Ráta Lascaine	2.50%	2.25%	3.75%
Ráta Boilscithe	1.50%	1.50%	2.00%

Leis an mbonn mortlaíochta atá á leanadh, is féidir dul chun cinn in ionchas saoil le himeacht ama a chur san áireamh; mar sin, braithfidh ionchas saoil ag dul ar scor ar an mbliain a shroichfidh ball aois scoir (65 bliana). Léiríonn an tábla thíos ionchas saoil na mball a shroichfidh aois 65 in 2015 agus in 2035.

	31/12/2015		31/12/2014	
	2015	2035	2014	2034
Aois 65 sa bhliain				
Ionchas saoil – fir	87.3	89.9	87.3	89.9
Ionchas saoil – mná	88.7	90.9	88.7	90.9

14. Nochtadh Idirbheartaíochtaí

Glacann Comhairle na hInstitiúide le nósanna imeachta de réir threoirlínte atá eisithe ag an Roinn Airgeadais maidir le leasana a nochtaíonn Comhaltaí na Comhairle agus chloígh Comhaltaí na Comhairle leis na nósanna imeachta sin le linn na bliana. Níor léirigh aon Chomhalta de chuid na Comhairle leas.

Nótaí do na Ráitis Airgeadais (ar leanúint)

15. Nochtadh Comhaltaí na Comhairle/Tuarastal an Chláraitheora, Táillí agus Costais

	Luach Saothair Iomláin 2015 €	Speansais Iomlána 2015 €	Luach Saothair Iomláin 2014 €	Speansais Iomlána 2014 €
Comhalta den Chomhairle				
Dr Vincent Cunnane		939		1,551
Baill ceaptha ag Boird Rialaithe na gComhScoileanna				
An tOllamh Gerry Wrixon		125		336
An tOllamh Arthur Jaffe		1,503		2,065
An tOllamh Anders Ahlqvist		8,908		3,860
An tOllamh Werner Nahm				
An tOllamh Luke Drury				
An tOllamh Liam Breatnach				
Cláraitheoir				
Cecil Uasal Keaveney *	97,906		97,906	
	97,906	11,475	97,906	7,812

* Nóta

Faigheann an Cláraitheoir turastail anháin. Ní íochtar aon bhónas leis. Ní sháraíonn teidlíochtaí pinsin an Chláraitheora gnáththeidlíochtaí scéim aoisliúntais le sochar sainithe na hearnála poiblí.

16. Líon Fostaithe le Sochair í 2015 that fall within bands of €10,000 from €60,000 onwards

Líon fostaithe le sochair €60k	Líon fostaithe le sochair €70k	Líon fostaithe le sochair €90k	Líon fostaithe le sochair €100k	Líon fostaithe le sochair €110k	Líon fostaithe le sochair €120k	Líon fostaithe le sochair €130k
1	7	2	2	0	1	5

17. Ranníocaíochtaí Pinsin Fostóra

Ranníocaíochtaí Fostóra í 2015 = €90,425

18. Ceangaltais Caipitil

Tá ceangaltais caipitil de €100,000 do 2016 nach bhfuil curtha ar fáil sna ráitis airgeadais.

Nótaí do na Ráitis Airgeadais (ar leanúint)

19. Breithiúnais nuair a a chuirtear Polasaithe Cuntasaíochta agus Príomhfhoinsí Meastacháin i bhFeidhm

Chun na ráitis airgeadais seo a ullmhú ní mór don bhainistíocht breithiúnais, meastacháin agus toimhdí a dhéanamh a théann i gcionn ar chur i bhfeidhm na bpolasaithe agus na suimeanna tuairiscithe de shócmhainní agus dliteanas, ioncam agus speansais. Déantar measúnú leanúnach ar bhreithiúnais agus ar mheastacháin agus tá siad bunaithe ar thairbh stairiúil agus ar thosca eile, lena n-áirítear ionchais d'eachtraí sa todhchaí a chreidtear a bheith réasúnta faoi na cúinsí.

Déanann an Institiúid meastacháin agus toimhdí i dtaca leis an todhchaí. Dá bhrí sin, is annamh a bheidh na meastacháin cuntasaíochta a tharlaíonn dá bharr ionann go hiomlán le torthaí ábhartha iarbhír. Maidir leis na meastacháin agus toimhdí a bhfuil riosca suntasach ina leith go mbeidh siad ina gcúis le leasú ábhartha a dhéanamh ar mhéid na sócmhainní agus na ndlitéanas laistigh den bhliain airgeadais atá ag teacht, pléitear anseo thíos iad.

Saolta Úsáideacha de Shócmhainní Socair Inbhráite

Is cuid shuntasach d'iomlán na sócmhainní iad sócmhainní fadsaoil - Troscán agus Trealamh, Ríomhairí agus Mótarfheithiclí den chuid is mó. Braitheann an muirear dímheasa bliantúil go príomha ar an bhfad saoil measta atá ag gach cinéal sócmhainne agus, i gcúinsí áirithe, meastacháin ar luachanna iarmharacha. Déanann an Chomhairle athbhreithniú go rialta ar na saolta úsáideacha seo agus athraíonn siad iad más gá chun coinníollacha reatha a léiriú. Agus na saolta úsáideacha seo á gcinneadh déanann an bhainistíocht machnamh ar athrú teicneolaíoch, pátrúin tomhaltais, riocht fhisiciúil agus úsáid mheasta na sócmhainní. Féadfaigh athruithe sna saolta úsáideacha dul i bhfeidhm go suntasach ar an muirear díluachála don bhliain airgeadais.

Foshuíomhanna Achtúireacha i dtaca le Scéimeanna Sochair Scoir le Sochar Sainithe

Déantar cur i bhfeidhm na bhfoshuíomhanna achtúireacha i dtaca le scéimeanna sochair scoir le sochar sainithe a chorpú sna ráitis airgeadais I gcomhéir le FRS 102. Agus FRS 102 á chur i bhfeidhm, glactar le comhairle ó achtúirí cáilithe neamhspleácha. Sa chomhthéacs seo, déantar breithiúnas suntasach i líon réimsí, lena n-áirítear athruithe sa todhchaí ar thuarastail agus boilsciú, rátaí báis agus rátaí lascaine a roghnú. Déantar sócmhainn le sochar sainithe a thaifeadh atá ag teacht leis an dliteanas ar an bunús go bhfuil an dliteanas maoinithe ag an stát.

Soláthairtí

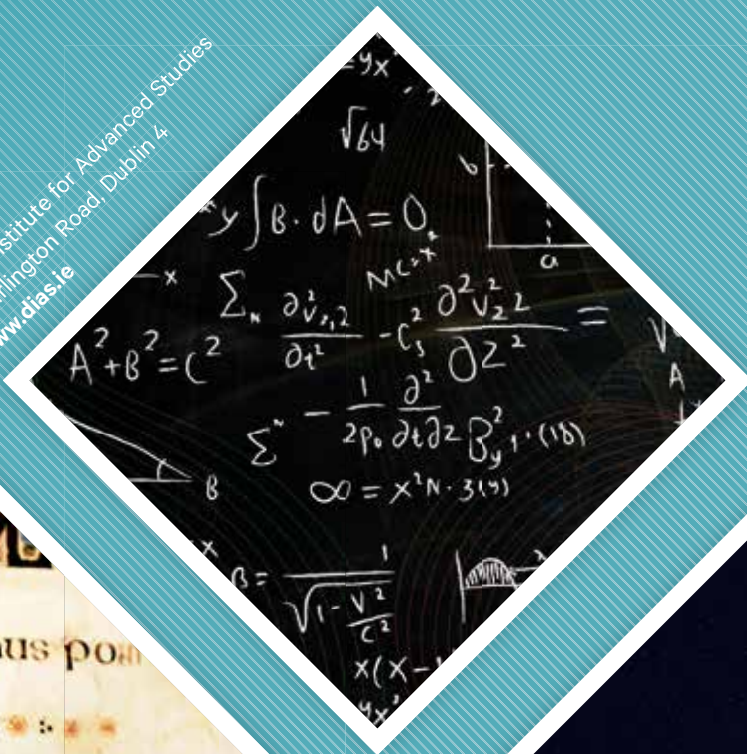
Déanann an Institiúid soláthairtí d'oibleagáidí dleathacha agus cruthaitheacha, arb eol di a bheith fós le híoc ag deireadh na tréimhse. I gcoitinne, déantar na soláthairtí seo bunaithe ar fhaisnéis stairiúil nó ar fhaisnéis ábhartha eile, leasaithe do threochtaí le déanaí más cuí. Mar sin féin, is meastacháin iad ar chostais airgeadais eachtaí nach dtarlódh le roinnt blianta, b'fhéidir. Mar thoradh air seo agus ar leibhéal na héiginnteachta a bhaineann leis na torthaí deiridh, féadfaidh difríocht shuntasach a bheith idir an toradh agus an meastachán.

20. Ceadú Cuntais

Cheadaigh an Chomhairle na Ráitis Airgeadais ar an 23 Meitheamh 2016.



Dublin Institute for Advanced Studies
10 Burlington Road, Dublin 4
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