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Vintage: 2022

Synopsis: An article by Dr.Karlin Lillington on the unveiling of the Ludgate plaque.

### **Description:**

A blue plaque in honour of Percy Edwin Ludgate was unveiled in October, 2022, one hundred years after his death, by the Provost of Trinity College Dublin, Prof Linda Doyle, as part of a national series of commemorative plaques honouring leaders in Science & Technology. A (probably the) leading computer science journalist in Ireland, Karlin Lillington, was in attendance, and wrote a very interesting article about the event, published in the Irish Times on the of 3<sup>rd</sup> November, 2022.

Many thanks to Brian Coghlan for donating this item.

The homepage for this catalog is at: <a href="https://www.scss.tcd.ie/SCSSTreasuresCatalog/">https://www.scss.tcd.ie/SCSSTreasuresCatalog/</a> Click 'Accession Index' (1st column listed) for related folder, or 'About' for further guidance. Some of the items below may be more properly part of other categories of this catalog, but are listed here for convenience.

Accession Index	Object with Identification
TCD-SCSS-V.20221220.001	Extract of Irish Times issue of 3-Nov-2022, An article by
	Dr.Karlin Lillington on the unveiling of the Ludgate plaque,
	2022.
TCD-SCSS-V.20221015.001	Unveiling of a Science Plaque to Percy Edwin Ludgate,
	Videos and photographs of the unveiling of the Ludgate
	Plaque, 2022.

### **References:**

1. Wikipedia, *Percy Ludgate*, see:
<a href="https://en.wikipedia.org/wiki/Percy\_Ludgate">https://en.wikipedia.org/wiki/Percy\_Ludgate</a>
Last browsed to on 20-Dec-2022.

ember 3rd, 2022 Editor Ciarán Hancock Twitter @IrishT



DNA tool could help preserve fish stocks Innovation, page 16



How Musk sealed the Twitter deal Technology, page 17

Karlin

Remembering

Ireland's forgotten computer pioneer

## Tax receipts distorting picture, says **Donohoe**

Receipts generate €16.6bn in the 10 months to the end of October

Services sector loses



## **Ibec lowers economic growth forecast** and warns of market instability





## Sixth interest rate hike in row from Fed

## momentum in October



### Toy giant Hasbro sells Ireland's Boulder Media

**Net Results** 

# Remembering Ireland's forgotten computer pioneer

n mid-October, a small crowd-including mestood in the middle of a narrow road in Drumcondra, huddling into our coats against sporadic gusts of wind as we gazed at a neat red-brick terraced house

To the right of the front window at 30 Dargle Road, an incongruous small curtain was mounted on the exterior wall. With a few gentle tugs, Trinity College Dublin provost Prof Linda Doyle pulled it back to reveal a new blue plaque commemorating the house that once belonged to the enigmatic Irish inventor and pioneering computer scientist, Percy Ludgate, a man far ahead of his time who remains mostly unknown in

Inside that house, in the early years of the last century, Ludgate-only in his 20s worked out the astonishing conceptual design of the world's second computer. The first is now widely recognised -that's the "analytical engine" developed by the English mathematician Charles Babbage from the 1830s onwards, assisted by his mathematician friend, Ada Lovelace

Though Babbage never managed to build the machine himself, a working model was eventually created at London's Science Museum and another sits in the Computer History Museum in Silicon Valley. I've visited both and seen and heard them in operation-it's quite a dramatic process involving an enormous, clattery construction of shining gears and cogs and moving parts.

Early historical accounts all presumed that over a hundred years, and two world

tives from the Royal Irish Academy, the Royal Dublin Society, Engineers Ireland, the Irish Academy of Engi-neering, the Irish Computer Society, and the Irish Mathematical Society came to pay respects at the house on Dargle Road, too.

Also present were the first and the most recent recipi ents of TCD's Ludgate Prize, given every year to recognise the finest student thesis from that year's graduating class in computer science. The first recipient, in 1991, was Dr Steven Collins, who went on to co-found the successful gaming software company Havok.

Plaque unveiled

TCD student Mohamed Suliman, a Dubliner of Sudanese heritage, is the most recent (2021) recipient, for his thesis Timeline Probabilities, which is "all about temporal knowledge representation and reasoning", he told me. I enjoyed chatting with him at the reception after the plaque unveiling and we connected again by email a few days later

Winning the Ludgate Prize was a nice surprise, he says, because "the subject I chose was not an orthodox thesis



Though Babbage never managed to build the machine himself, a working model was eventually created at London's Science Museum and another sits in the Computer History Museum in Silicon Valley. I've visited both and seen and heard them in operation-it's quite a dramatic process involving an enormous, clattery construction of shining gears and cogs

and moving parts.
"Early historical accounts all presumed that over a hundred years, and two world wars, had passed before anyone anywhere successfully, knowingly or otherwise, followed in Babbage's footsteps," Prof Brian Randell of the school of computing at Newcastle University, told us at the plaque launch, "But now we know otherwise.

As Randell explained, Ludgate came up with a wholly original design using shuttles containing 21 sliding rods, controlled by a perforat-ed paper tape. Unlike Babbage's machine, Ludgate's could perform straightforward multiplication and division. It also had some early features of modern computers, such as the ability to run subroutines

It is thanks to a small group of dedicated computer scientists that Ludgate's achievement and importance are now historically acknowledged, even if he himself remains under-recognised in the public mind. In 1971, Randell wrote an early paper on him after reading Ludgate's sole paper on his computer, published in the 1909 Scientific Proceedings of the Royal Dublin Society

Ludgate resources

Spearheading much of the recent work on Ludgate is Trinity computer scientist Dr Brian Coghlan, who has worked hard to give Ludgate his rightful place in computing history. Along with Randell, he has co-edited a new book that gathers together a wide range of papers on Ludgate, and he maintains a collection of online Ludgate resources at TCD. He also organised the plaque's launch but then, unfortunately, contracted Covid and was unable to attend.

Among those there on the day was Ludgate's American descendant, his grand-niece Trish Gonzalez, Representa-

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**Trinity College Dublin provost Prof Linda Doyle** pulled back a small curtain to reveal a new blue plaque commemorating the house

topic for computer science [I had brought it up myself] and it took some time to find a supervisor who would take it on, so it was nice to be recognised for the work'

He also enjoyed learning about Ludgate, "The prize's namesake allowed for a nice lesson in Irish and computing history," he says, I'd like to think such an unconventional innovator as Ludgate would be quite pleased that another unorthodox thinker received the prize bearing his name.

Suliman is now in the second year of a PhD. He's about to submit a paper that shows it is possible to reconstruct user data from the Al models that predict what word a person is about to type next-"those three-word suggestions that appear above the keyboard on a smartphone

Imagine what Ludgate might have thought about much of the world these days owning a pocket computer in the form of a smartphone, taking up less space than a couple of his sliding rods.

And imagine what more he might have done, had he lived longer. He died from pneumonia at the young age of 39, just over 100 years ago in October

