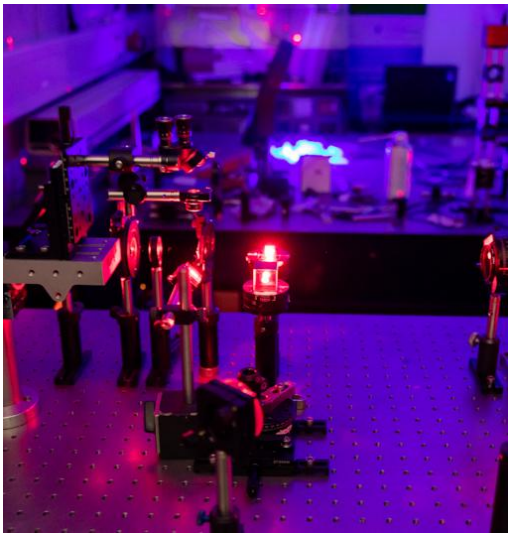
IEO Centre
Annual report 2025



Optical and holographic systems
Photosensitive materials
Micro-patterning with laser light

IEO Team 2025

Principal Investigators and Research Themes 2025

- Functionalised optical structures for application in sensing, security and micro-actuators
  Prof. Izabela Naydenova
- Holography for Diffractive Optical Elements
  Dr Suzanne Martin (Centre Manager)
- Calibration and Quality Assurance of Medical Technologies
  Dr Dervil Cody.
- Holography for Wavefront Sensing & Vision
  Dr Kevin Murphy.
- Development of Photopolymerisible glass for novel applications
  Dr Tatsiana Mikulchyk.
- Optics in eye care
  Dr Matt Sheehan
- Interferometry and Computational Imaging/future projects
  Prof. Vincent Toal (Chair EAB)

Postgraduate students and Postdoctoral fellows 2025

Graceson Antony
Faolan Radford McGovern
Emma Branigan (Postdoc)
Clare Devery
Matt Hellis
Michael Murray
Jorge Lasarte
Dipanjan Chakraborty
Owen Kearney
Saoirse Maher
Javier Arguelles Lopez
Luca Sorridente
Pamela Stoeva
Aleksandra Hernik
Masaya Sugihara
Jamshed Aftab
Vishwath Rishaban
David Ma
Rory Staines
Tony Mazoa

IEO Designated TU Dublin Research Centre

IEO Designated TU Dublin Research Centre



IEO Centre Staff and Research Students 2025

IEO External Advisory Board 2025

Scientific Director:
Prof Izabela Naydenova

Manager:
Dr Suzanne Martin

Advisory board Chair:

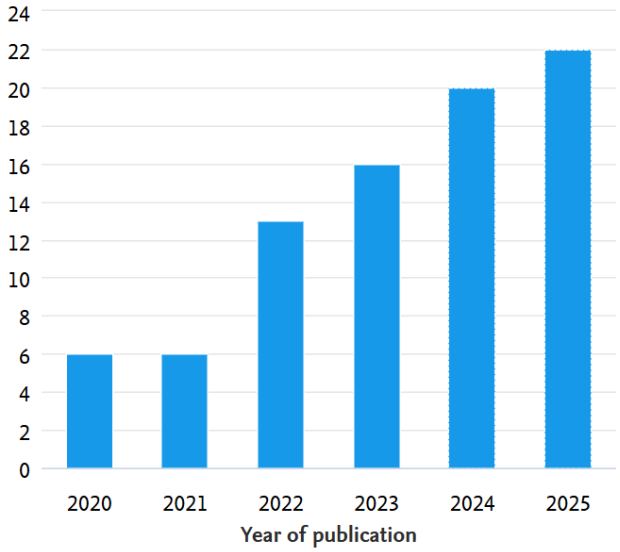
Prof Vincent Toal

Advisory Board Members:

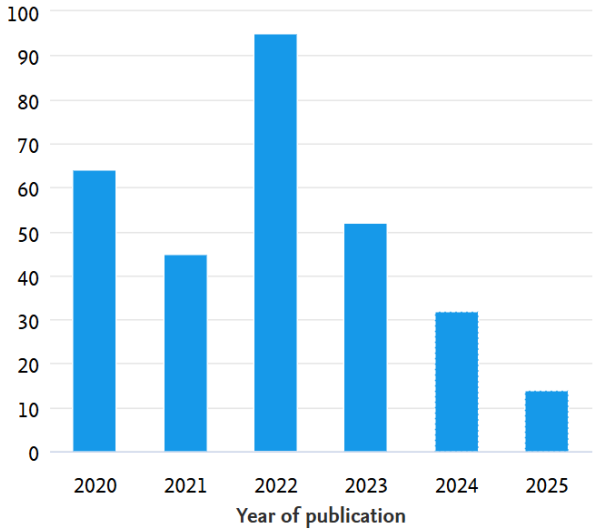
Dr Jennifer Brennan, Prof Chris Dainty, Mr Richard Lydon, Dr Siobhan Daly, Dr Suzanne Martin, Prof Izabela Naydenova. Dr Monika Zawadzka, Ms Pamela Stoeva. Prof Svetlana Mintova, Dr Shawna Johnston

2025 publications

Peer-Reviewed Publications*



Citation count



International collaboration on peer-reviewed publications

		Institution	Co-authored publications
1.		IRL **Technological University Dublin**	82
2.		ESP University of Zaragoza	6
3.		USA Mayo Clinic Rochester, MN	6
4.		IRL Trinity College Dublin	5
5.		BEL KU Leuven	4
6.		IRL University of Galway	4
7.		IRL Royal College of Surgeons in Ireland	4
8.		IRL University College Dublin	4
9.		DEU Fraunhofer Institute of Optronics, System Technologies and Image Exploitation	4
10.		FRA CNRS	3

* *includes peer-reviewed journal papers and peer-reviewed conference proceedings papers*

Events organised 2025



IEO organised a Holography workshop special event for Early Stage Researchers at SPIE Optics and Optoelectronics Prague, April 2025 along with Dr Andrea Bianco (INAF Rome) and Immaculada Pascual (University of Alicante) [SPIE Optics + Optoelectronics Special Event Holography Workshop]



[Optics and Photonics day 2025]

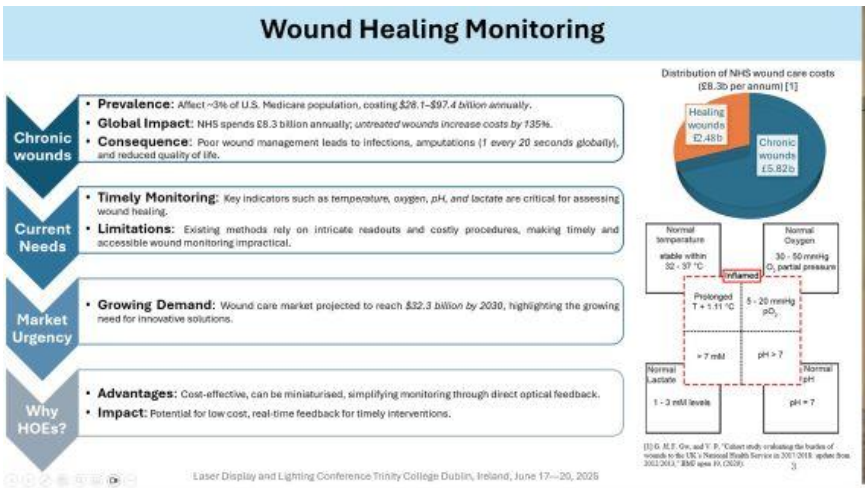
Irish research network



Visit to Mike Hardy and the team at [Queens University Belfast]



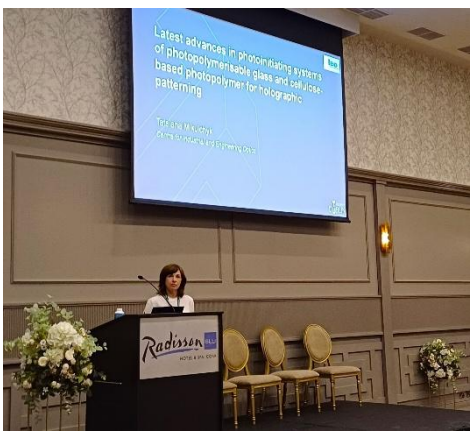
IEO at the [ARISE research showcase] in April 2025





[Laser Display and Lighting Conference] July 2025



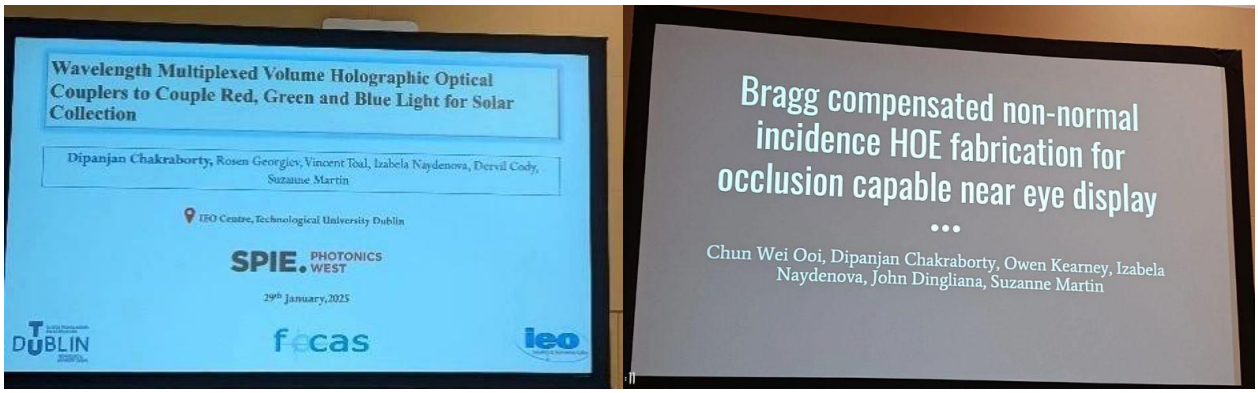


[Strong TU Dublin participation in Photonics Ireland September 2025]

International research network



IEO at the [SPIE Optics and Optoelectronics conference Prague](), April 2025



Dipanjan Chakraborty and Chun Wei Ooi delivered two IEO papers at [Photonics West 2025]()

Other highlights



Best postgraduate poster award to Matt Hellis at the School of Physics Annual Research Day



Dr Pamela Stoeva and Dr Faolan Radford McGovern Graduation November 2025



Dr Emma Branigan
Graduation February 2025

TU Dublin Research and Innovation Awards:

Prof. Izabela Naydenova winner of Excellence in Research Award

Dr Dervil Cody shortlisted for ‘One to watch’ award

Website – www.tudublin.ie/ieo
LinkedIn: (30) IEO Centre: Posts | LinkedIn

Taighde Éireann Research Ireland

IRISH RESEARCH COUNCIL
An Chomhairle um Thaighde in Éirinn

OLLSCOIL TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH
TU DUBLIN
TECHNOLOGICAL UNIVERSITY DUBLIN

ieo
Industrial & Engineering Optics

ENTERPRISE IRELAND
where innovation means business

Rialtas na hÉireann
Government of Ireland

Arna chomhchistiú ag an Aontas Eorpach
Co-funded by the European Union

Tionól Réigiúnach an Deiscirt
Southern Regional Assembly

HEA HIGHER EDUCATION AUTHORITY
AN tÚDARÁS um ARD-OIDEACHAS