

# ICE Awards Ceremony

11 October 2024



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# Welcome from the President

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## Dear friends and colleagues,

I'm delighted that you can join me for one of the highlights in our Institution's calendar.

Today, we recognise the very best in civil and infrastructure engineering. We recognise talent, ambition, innovation, and, above all, commitment to building a better world.

That world is ever-changing. But our mission remains the same: to improve lives, by delivering the infrastructure systems where people and nature thrive.

Today's winners put nature and people first, improving health, safety, sustainability, resilience, equity, prosperity, and more. Importantly, they also remind us that whatever we're working on, however large or small, matters. In 2024, our institution has almost 100,000 members, and each one has the skills and the scope to transform our world.

To today's winners, on behalf of the ICE, I offer my heartfelt congratulations and thanks for the inspirational example you set for our wonderful profession.

And to everyone, thank you for joining us. I hope you enjoy your day.

A handwritten signature in black ink that reads "Anusha Shah" with a stylized flourish underneath.

**Professor Anusha Shah**

President

Institution of Civil Engineers

# Programme

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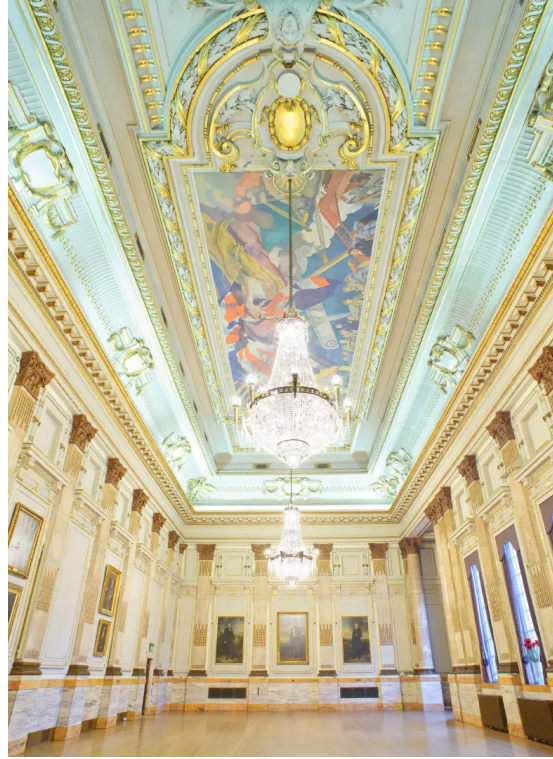
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- |              |   |
|--------------|---|
| <b>11:30</b> | Arrival and registration  |
| <b>12:00</b> | Registration closes   |
| <b>12:30</b> | Welcome by <b>Dr Janet Young</b> ,<br>director general, Institution of Civil Engineers              |
| <b>12:35</b> | Presidential Address by <b>Professor Anusha Shah</b> ,<br>president, Institution of Civil Engineers |
| <b>12:45</b> | Lunch service commences in the Great Hall   |
| <b>14:00</b> | <b>Presentation of awards</b>   |
| <b>14:30</b> | Lunch service resumes   |
| <b>15:00</b> | <b>Awards ceremony continues</b>  |
| <b>15:30</b> | Drinks reception commences in the<br>Infrastructure Learning Hub                                    |
| <b>16:30</b> | Event closes  |
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## The Ceremony

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Seating plans are located outside the Great Hall. If you have any mobility requirements, please advise a member of staff.

Please switch off your mobile phone during the ceremony.



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## Photography

Ede and Ravenscroft is a professional photography service available to all recipients attending the Award Ceremony.

They will take a photograph of each recipient on stage as they receive their awards.

The Ede and Ravenscroft sales desk will be located inside the Great Hall on the first floor.

All photographs taken on the day will be

available to view and purchase after the ceremony. They also offer a certificate framing service to all recipients.

For further information regarding photographs at the ceremony, please contact Ede and Ravenscroft Photography by email [customerservices@academic-services.co.uk](mailto:customerservices@academic-services.co.uk) or phone 0370 2421170.

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## Social media

Should award winners wish to celebrate their day using social media, please use the following: **#ICEAwards**.





# Essential engineering knowledge

In May 2023,  
Emerald Publishing  
announced their  
acquisition of the ICE  
Publishing portfolio,  
welcoming them to the  
Emerald Publishing  
family.

The full portfolio includes 35 peer-reviewed journals, over 1,500 eBooks and an impressive archive of 36,000 research articles dating back to 1836. Focussed on the fields of civil engineering, construction and materials science, the collection provides information for researchers and practitioners worldwide.

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We're committed to publishing mission-led research that tackles key societal challenges aligned with the UN Sustainable Development Goals. In fact, driving positive change has been our goal since we first began back in 1967 and is still true today.

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- Keep up to date with the latest sector developments
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- Strengthen your CV

To ensure a diverse and sustainable pool of reviewers and assessors, all professionally qualified members may be asked to volunteer. Comprehensive training will enable you to confidently assess candidates alongside an experienced colleague.

Please get in touch if you are interested  
**[BecomeAReviewer@ice.org.uk](mailto:BecomeAReviewer@ice.org.uk)**

# Winners of the Institution of Civil Engineers Awards

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2023/2024

In order of awards announced





# Prizes and awards linked to achievement and development

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## EMERGING ENGINEERS AWARD

The Emerging Engineers Award promotes and rewards excellence in the originality and communication of civil engineering ideas and research.

It does this by creating an opportunity for ICE student and graduate members, as well as apprentices at either of these grades or holding professionally qualified membership as IEng MICE or EngTech MICE and continuing on their apprenticeship, to showcase their knowledge and talent to the wider civil engineering community.

Entrants present papers on engineering design, research or practice to an audience of their peers. Entering this competition gives members the opportunity to enhance their written and verbal presentation skills, showcase their work and enhance continuing professional development, particularly in support of professional review preparation. The ability to communicate technical concepts in a clear manner to a varied audience is a key skill for civil engineers, and this competition provides opportunity to enhance presentation skills. There is also opportunity to be selected for publication of the winning paper in one of the ICE technical journals.

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### 2023 Winner:

**George Grant**

**Project:** Developing a new below ground vegetation SuDS solution

## JAMES RENNIE MEDAL

The aim of the James Rennie Medal is to promote awareness of the role and achievements of newly qualified Chartered Civil Engineers. The competition was first held in 1996 and it is awarded to the best Chartered Professional Review (CPR and CPRP) candidate whose CPR/ CPRP reports most reflect James Rennie's values.

Candidates are nominated by their Reviewers on the basis that they have demonstrated outstanding qualities in all attributes and demonstrated a significant contribution in the promotion and development of civil engineering. Their submitted project reports and presentations at Review also have to show a thorough understanding of engineering principles in the design and construction process.

This year's winner was selected from 959 Professional Reviews that took place in 2023. The winner was up against two other finalists that were selected by the James Rennie Award Panel. The three best candidates presented their reports at the lively 2024 James Rennie Medal final held in March, where the winner was announced on the night.

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### 2024 Winner:

**Joseph Roper**

**Project:** Achieving a contract incentive milestone on the HS2 Area North Project 2022

# Prizes and awards linked to achievement and development

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## JEAN VENABLES MEDAL

The aim of the Jean Venables Medal is to promote awareness of the role and achievements of newly qualified Engineering Technicians. The award was first held in 2011 and is named after Jean Venables, ICE President from 2008 to 2009, who contributed significantly in raising the profile of our Technician members and who continues to contribute significantly to this initiative.

The medal recognises and celebrates the best performance by a newly qualified Technician Member at a Technician Professional Review (TPR) during a calendar year and is open to all candidates who have passed their TPR in the year preceding that in which the award is made.

Candidates are nominated by their Reviewers on the basis that at Review, they have demonstrated outstanding qualities in all Technician attributes. The nominated candidates are shortlisted to three, who are interviewed by the ICE Awards Panel, with the winner also demonstrating, through their participation of ICE activities, a passion and enthusiasm for the profession of civil engineering.

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### **2024 Winner:**

**Davey Wallace**

## RENÉE REDFERN HUNT MEMORIAL PRIZE

The Renée Redfern Hunt Memorial Prize is awarded to the best communications task produced during each Professional Review session and is open to all those candidates who have passed the Chartered or Member Professional Review. The prize was instituted in memory of Miss Renée Redfern Hunt, MBE, who was a Professional Examination Officer at the Institution from 1945 until a few months before her death in 1981.

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### **Winner Autumn 2023:**

**Eric Ho**

### **Winner Spring 2024:**

**Rachel Attwood**

# Prizes and awards linked to achievement and development

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## ICE STEM AMBASSADOR OF THE YEAR

ICE STEM Ambassador of the Year Award honours an exceptional ICE STEM Ambassador who has shown outstanding commitment to civil engineering by giving their time and effort to inspire the next generation of civil engineers. The winner is selected from the 12 regional winners, honoured by their regions throughout the last year. ICE STEM ambassadors are ICE members who engage and inspire young people towards a career in civil engineering through a range of activities including school visits, mentoring and hands-on activities.

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**2024 Winner:**  
**Ada Nwadigo**

## TONY CHAPMAN MEDAL

The Tony Chapman Medal aims to promote the awareness of the role and achievements of newly qualified Incorporated Engineers. The medal commemorates Tony Chapman, ICE Reviewer and member of Council, who contributed significantly in raising the profile of our Incorporated Members and is awarded annually to the best Incorporated Professional Review (IPR) candidate. The medal recognises and celebrates the best performance by a newly qualified Incorporated Engineer at an IPR during a calendar year and is open to all candidates who have passed their Review in the year preceding that in which the medal is awarded.

Candidates are nominated by their Reviewers on the basis that at Review they have demonstrated outstanding qualities in all incorporated attributes. The nominated candidates are shortlisted to three who are interviewed by the ICE Standards Panel, with the winner also demonstrating, through their participation of ICE activities, a passion and enthusiasm for the profession of civil engineering.

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**2024 Winner:**  
**Chinwe Odili**

The logo for ICE BENEVOLENT FUND is located in the top left corner. It consists of the words "ICE", "BENEVOLENT", and "FUND" stacked vertically in a bold, black, sans-serif font. To the right of the text is a white, semi-circular shape that resembles a speech bubble or a stylized cloud.

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## Prizes for Published Papers

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### BILL CURTIN MEDAL

Instituted in 1992 following a donation by Curtins Consulting Engineers to commemorate the late W G Curtin's contribution to engineering. The medal is awarded annually for the best paper published by the Institution describing innovative design in civil engineering.

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#### Winners:

**Dr Subarna Sivashanmugam,  
Sergio Rodriguez-Trejo,  
Professor Farzad Rahimian,  
Professor Nashwan Dawood**

**Paper:** Maximising the construction waste reduction potential - barriers and catalysts

**Published in:** Civil Engineering, Volume 176 Issue 6, November 2023, pp. 6-14

### CHARLES MANBY PRIZE

This was instituted in 1857 by Charles Manby, Secretary of the Institution from 1839 to 1859. The income from the endowment fund is used to provide a certificate every year for papers read at meetings of the Institution.

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#### Winners:

**Dr Qiuchen Lu, Dr Long Chen,  
Dr Xiang Xie, Zigeng Fang,  
Zhen Ye and Michael Pitt**

**Paper:** Framing blockchain-integrated digital twins for emergent healthcare: a proof of concept

**Published in:** Engineering Sustainability, Volume 176 Issue 4, August 2023, pp. 228-243

## Prizes for Published Papers

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### COOPERS HILL WAR MEMORIAL PRIZE

Founded in 1919 by the Coopers Hill Society in memory of its members, and of relatives of its members, who fell in the war (1914–1918) this prize is awarded annually to the best paper published by Civil Engineering journal. Half the income derived from an endowment fund is in the award of the Council of the Institution and is to be expended in the provision of a medal, and a certificate, for a paper by a Corporate Member published by the Institution. The award is made irrespective of the age of the author and of any other award made for the same paper. In the case of joint authorship, additional medals and certificates are presented. The other half of the income is in the award (in rotation) of the Institution of Electrical Engineers, the Department of Forestry at Oxford University, and the Institution of Royal Engineers, Chatham.

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#### Winners:

**John Roberts, J Simpson, Jody Paxman**

**Paper:** Construction engineering at The Acre, UK: how innovative props facilitated building reuse

**Published in:** Civil Engineering, Volume 176 Issue 6, November 2023, pp. 28-35

### CRAMPTON PRIZE

Instituted following a bequest by Thomas Russell Crampton (1816-1888), who was associated with marine telegraphy and improvements in locomotive design. The prize is awarded annually, for the best paper on practical geotechnical engineering.

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#### Winners:

**Jack Templeman, Bryn Phillips, Dr Brian Sheil**

**Paper:** Cutting shoe design for open caissons in sand: influence on vertical bearing capacity

**Published in:** Geotechnical Engineering, Volume 176 Issue 1, February 2023, pp. 58-73

## Prizes for Published Papers

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### DAVID HISLOP AWARD

(also known as the Offshore Award)

Founded in memory of David Atholl Hislop (1928-1973), the award is for the best paper published in the proceedings, or in an Institution conference volume, on heavy marine design and construction with particular reference to offshore engineering.

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#### Winners:

**Congcong Han, Professor Jun Liu, Professor Ping Yi**

**Paper:** Adaptivity of plate anchors to restrain the impact of seabed trenching

**Published in:** Géotechnique Letters, Volume 13 Issue 1, May 2023, pp. 6-12

### HALCROW PRIZE

Instituted in 1960 following a bequest made by Sir William Halcrow (1883-1958), President 1946-47, this is an annual award for the authors of the best paper published by the Institution on maritime engineering.

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#### Winners:

**Hadi Pezeshki, Professor Hojjat Adeli, Professor Dimitrios Pavlou, Sudath C Siriwardane**

**Paper:** State of the art in structural health monitoring of offshore and marine structures

**Published in:** Maritime Engineering, Volume 176 Issue 2, April 2023, pp. 89-108



## Prizes for Published Papers

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### JAMES HILL PRIZE

This award originated with the former Institution of Municipal Engineers and is given for a paper published in Municipal Engineer on a municipal engineering subject.

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#### Winners:

**M McHale, Dr Michael Gordon,  
Alan LC Ferguson**

**Paper:** Use of digital technology to improve the way asphalt roads are constructed

**Published in:** Municipal Engineer, Volume 176 Issue 4, December 2023, pp. 189-195

### JAMES WATT MEDAL

The medal, named after James Watt, the Scottish mechanical engineer and inventor who died in 1819, was introduced by Robert Stephenson, President of the Institution in 1855-56. This medal is awarded to the authors of best paper published annually on an energy topic.

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#### Winners:

**Fei Liu, Alma Schellart,  
Professor Joby Boxall,  
Professor Mayfield-Tulip,  
Simon Tait**

**Paper:** Integrating existing water and wastewater assets to reduce domestic heating emissions

**Published in:** Energy, Volume 176 Issue 2, April 2023, pp. 67-76

## Prizes for Published Papers

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### JOHN HENRY GARROOD KING MEDAL

Instituted following a donation made by Mrs Charlotte King, widow of the late Mr J H G King CEng FICE FStructE. Mr King became a Corporate Member of the Institution in 1951 and became a Fellow in 1959. During World War II Mr King was commissioned to serve in the Royal Marines. The medal is awarded annually for the best paper published by the Institution on tunnels, soil mechanics or bridges.

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#### Winners:

**Leslie A. Martin, Zaher Yousif,  
Bruce Campbell, Martin Furrer,  
Matthew J. Chynoweth**

**Paper:** Planning and design of the Gordie Howe International Bridge, North America

**Published in:** Bridge Engineering, Volume 176 Issue 4, December 2023, pp. 233-249

### MOKSHAGUNDAM VISVESVARAYA PRIZE

The income is derived from a fund consolidating two funds previously applied to the reward of merit amongst students of the Royal Indian Engineering College, Coopers Hill, when the college was closed in 1906. It is used to provide two certificates, to be awarded to the authors (being Corporate Members of the Institution) of the two best papers received during the year on a subject connected with works carried out outside the British Isles.

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#### Winners:

**Dr Marcelo Sanchez,  
Beatrice Pomaro, Antonio Gens**

**Paper:** Coupled THM analysis of a full-scale test for high-level nuclear waste and spent fuel disposal under actual repository conditions during 18 years of operation

**Published in:** Géotechnique, Volume 73 Issue 5, May 2023, pp. 418-438

## Prizes for Published Papers

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### NANOMATERIALS AND ENERGY PRIZE

Instituted by ICE Publishing to recognise excellence in technical writing within the journal's field.

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#### Winners:

**Dr Sasmita Bal, Asha Rani N R, Tresheela Laishram**

**Paper:** Energy transition: paving the way for a greener future

**Published in:** Nanomaterials and Energy, Volume 12 Issue 3, July-September 2023, pp. 100-109

### REES JEFFREYS AWARD

Honouring Rees Jeffreys' work, this prize is awarded to the author of the best paper on highway engineering, including transport and transport infrastructure, published in the Transport Journal.

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#### Winners:

**Zia Wadud, Fuad Yasin Huda**

**Paper:** Fully automated vehicles: the use of travel time and its association with intention to use

**Published in:** Transport, Volume 176 Issue 3, June 2023, pp. 127-141

## Prizes for Published Papers

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### RICHARD TREVITHICK MEMORIAL FUND

In 1888 a fund was established in memory of Richard Trevithick (1771-1833) which was used to provide a memorial window in Westminster Abbey, and to establish a Trevithick Scholarship at Owens College, Manchester. The Richard Trevithick prize is awarded annually for the best paper published on a sustainability topic.

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#### Winners:

**Firehiwot Kedir, Daniel M. Hall,  
Dr Dimitra Ioannidou,  
Thomas Rupper, Richard Boyd,  
Professor Alexander Hollberg**

**Paper:** Resource efficiency in industrialised construction: a study in developing economies

**Published in:** Engineering Sustainability,  
Volume 176 Issue 2, April 2023, pp. 94-105

### SAFETY IN CONSTRUCTION MEDAL

Instituted following a donation by John Derrington CBE FEng, President 1984-85, to ensure that the Institution should continue to actively foster improved health and safety measures in construction works. The prize is awarded annually to the authors of the paper published by the Institution in the previous year for a project, or feature within a project, which best describes the measures taken to safeguard the health and safety of the construction team, the user and the public.

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#### Winners:

**Cian Guerin, Dr John P. Spillane**

**Paper:** The role of the construction project manager in developing a culture of suicide prevention

**Published in:** Management, Procurement and Law, Volume 176 Issue 1, January 2023, pp. 6-13

## Prizes for Published Papers

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### THOMAS HOWARD MEDAL

Instituted in 1872 following a bequest made to the Institution by Thomas Howard (1796-1872), Assoc. ICE, who carried out investigations in connection with steam and wrought iron. The income from the endowment fund is used to provide a medal awarded to celebrate the best paper detailing the use of materials in construction.

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#### Winners:

**Shawn L. Platt,  
Professor Chintha Jayasinghe,  
Professor M T R Jayasinghe,  
Dr Daniel Maskell, Gihan Ranasinghe,  
Pete Walker, Dr Indunil Erandi**

**Paper:** Improving the lateral load resistance of vernacular masonry walls subject to flooding

**Published in:** Construction Materials, Volume 176 Issue 3, May 2023, pp. 94-105

## Prizes for Published Papers

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### TELFORD PREMIUM

Telford Premium prizes are awarded for outstanding papers published by ICE. These were bequeathed by Thomas Telford.

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#### Winners:

**Daniel Chauhan, Shane Orme, Serena Gugliotta, Dr Zachariah Wynne, Alex Black-Roberts, Diego Padilla Philipps**

**Paper:** A multi-objective design tool for decarbonising buildings at the concept stage

**Published in:** Engineering and Computational Mechanics, Volume 175 Issue 1, March 2022, pp. 1-13

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#### Winners:

**Professor Antonello Troncone, Dr Luigi Pugliese, Dr Andrea Parise, Professor Enrico Conte**

**Paper:** Analysis of a landslide in sensitive clays using the material point method

**Published in:** Geotechnical Research, Volume 10, Issue 2, June 2023, pp. 67-77

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#### Winners:

**Dr Rui Zhao, Prof Dr Liang-tong Zhan, Yuqing You, Dr Cheng Chen, Prof Dr Yun-min Chen**

**Paper:** Centrifuge modelling of lead retardation in soil–bentonite cut-off walls

**Published in:** International Journal of Physical Modelling in Geotechnics, Volume 23, Issue 4, July 2023, pp. 166-179

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#### Winners:

**Professor Devin Sapsford, Douglas I. Stewart, Professor Danni Sinnett, Professor Ian Burke, Peter John Cleall, Dr Michael Harbottle, Will Mayes, Dr Nia Owen, Dr Margarida Sardo, Andrew J Weightman**

**Paper:** Circular economy landfills for temporary storage and treatment of mineral-rich wastes

**Published in:** Waste and Resource Management, Volume 176, Issue 2, April 2023, pp. 77-93

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#### Winners:

**Henry W P Paremain, Professor David Toll**

**Paper:** Heritage building information modelling: a case study of Kasthamandap, Nepal

**Published in:** Engineering History and Heritage, Volume 176, Issue 1, February 2023, pp. 25-34

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#### Winners:

**Dr Ali Golchin, Dr Yimu Guo, Philip J. Vardon, Professor Liu, Professor Zhang, Michael A. Hicks**

**Paper:** Shear creep behaviour of soil–structure interfaces under thermal cyclic loading

**Published in:** Géotechnique Letters, Volume 13, Issue 1, March 2023, pp. 22-28

*ICE Training offers a range of courses on sustainable design and construction, including introductions, carbon management, soil mixing and sustainable drainage systems*

*Find out more at  
[icetraining.org.uk](http://icetraining.org.uk)*

# Premium Prizes for Published Papers

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## SIR BENJAMIN BAKER MEDAL

Created in memory of Sir Benjamin Baker (1840-1907), a Past President of the Institution, and founded in 1934, the Baker medal is the third highest award that can be received for a paper published in an ICE journal.

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### Winners:

**Dr Toshihiko Nagatani,  
Professor T. Mizobuchi,  
Mr Yuki Hagihara**

**Paper:** Fatigue durability of reinforced concrete bridge deck repair methods

**Published in:** Bridge Engineering, Volume 176 Issue 1, March 2023, pp. 2-12

In recent years, the aging of existing reinforced concrete deck slabs of road bridges in Japan has been attributed to the deterioration of the concrete on the upper surface, and partial replacements have been carried out as a measure to extend service life. This study comparatively verifies the effectiveness of the partial cross-section replacement method, using a wheel load running test and focusing on the combination of the removal method of the existing concrete and the repair material.

## GEORGE STEPHENSON MEDAL

Instituted by Council in 1881, the metal casting die of the George Stephenson medal was acquired by ICE in 1881. It is the second highest award that can be received for a paper.

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### Winners:

**Professor Husam AlWaer,  
Professor Magda Sibley,  
Ian Cooper**

**Paper:** Design and use of space in refugee camps: a case study of a contested terrain

**Published in:** Urban Design and Planning, Volume 176 Issue 3, August 2023, pp. 123-141

The urgency in providing basic shelter for a large, displaced and distressed population frequently means that the design of refugee camps is based on a universal standardisation for the allocation of 'shelter' and its repetition in a grid-based layout.

This paper is based on a systematic review of literature in the public domain about the Al-Zaatari Syrian refugee camp in Jordan. Despite the originally imposed uniformity, the story at this camp is one of a rapid transformation, initially through collective determination. This paper illustrates the processes of adaptation and transformation, and examines the evolving distribution of space between occupants, the expansion of opportunities for income generation, and the introduction of new housing typologies and services.



# Premium Prizes for Published Papers

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## TELFORD GOLD MEDAL

The Telford Gold Medal is the Institution's highest award for a published paper. Introduced in 1835 following a bequest made by Thomas Telford (1757-1834), the Institution's first President, this award recognises papers believed to be of the highest practical value to the profession.

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### Winners:

**Benjamin Cerfontaine,  
Professor Michael Brown,  
J A Knappett, Craig Davidson,  
Dr Yaseen Sharif, Marco Huisman,  
Marius Ottolini, Jon Ball**

**Paper:** Control of screw pile installation to optimise performance for offshore energy applications

**Published in:** Géotechnique, Volume 73 Issue 3, March 2023, pp. 234-249

Screw piles can be used as foundations for offshore energy applications, thanks to their silent mode of installation and considerable uplift capacity, although a significant upscaling of onshore dimensions is necessary. However, the crowd (vertical) force necessary to install upscaled screw piles was previously shown to be far too great for practical installation. This paper shows that a lower vertical displacement per revolution can significantly reduce the necessary crowd force during installation or even generate some pull-in. In addition, it was shown that the uplift stiffness and capacity of the pile were enhanced by this installation process, at a shallow (relative) depth in sand.



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## Prizes that promote the Institution and the civil engineering profession

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### **CHRIS BINNIE AWARD FOR SUSTAINABLE WATER MANAGEMENT**

The award recognises actions within the water sector which have benefited society by improving the sustainability of water. The action can relate to a physical engineering project, a programme of works, the implementation of policy or the outcome of a piece of research – the emphasis being on the added benefit that has been brought to society.

This had greatly improved the lake's condition, delivering real water-treatment infrastructure. Furthermore, it has taught 600-plus citizens (including schoolchildren) how to make floating wetlands and it shows that Delhi's lakes can be cleaned and managed economically without having to add chemicals.

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#### **Winners:**

**Tarun Nanda, Ms. Debayani Panja**

#### **Project: The creation of the Hauz Khas Urban Wetlands**

The creation of the Hauz Khas urban wetlands project in New Delhi, India, was a citizen-led initiative, in partnership with the Delhi Development Authority and Evolve, to clean the 6ha Hauz Khas Lake. This included an open sewer inlet and a stormwater drain leading to it from the adjacent public park. The project was selected for its innovative use of local materials, sound engineering practice and community collaboration. It demonstrated what can be achieved with minimal funding to implement effective nature-based solutions. The scheme created more than 600m<sup>2</sup> of constructed and floating wetlands and a solar aerator (which mixes oxygen into a body of water) in what had been an unsightly and foul-smelling drain.

# Prizes that promote the Institution and the civil engineering profession

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## EDMUND HAMBLY MEDAL

This award recognises the creative design of an engineering project that has contributed to mitigating and adapting to the significant effects of climate change.

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### Winners:

**LEE Tat-keung, Davis, WU Kwok-yuen, Jacky, Yeung Kin Ming, Andy**

### Project: Revitalization of Tung Chung Stream, Hong Kong

The winner in this category provides an outstanding example of sustainable development that effectively supports ecological conservation and human advancement. The Awards Committee agreed that this is how it should be done. This project is restoring a channelised section of the Tung Chung Stream (TCS) on Lantau Island to its natural state and developing it into a river park – the first of its kind in Hong Kong. More than 40 native plant species will be planted to enhance the environment and boost biodiversity, while predictive tech will be installed to monitor water levels upstream and provide a comprehensive flood-warning system. The project will significantly upgrade the standard of protection from flooding in TCS from a one-in-50-year level of severity to a one-in-200-year level.

## THE GOLD MEDAL

The Gold Medal seeks to recognise an individual who has demonstrably worked to share lessons learned for the good of the profession. This individual's sustained ethical, knowledgeable, and insightful contribution to civil engineering is of sufficient magnitude and stature to merit an Institution premier award.

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### Highly commended:

**Lara Young**

### Winner:

**Peter Kydd**

Peter Kydd is an ICE Fellow with more than 45 years' professional experience. He specialises as a consultant engineer in carbon reduction, renewable energy, water and transport. Although he's retired, he continues to advise national and local governments. He's also a strategic consultant to WSP, undertaking due diligence in areas such as climate change action planning, decarbonisation and tidal power. Kydd won the Gold Medal for his contributions to renewable energy use and decarbonisation across the transport and water sectors, along with his work to support economic growth in South West England.

# Prizes that promote the Institution and the civil engineering profession

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## GARTH WATSON MEDAL

The Garth Watson Medal is awarded for dedicated and valuable service to the Institution by a member or a member of staff

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### Winner:

#### Andrew Stanley

Andrew Stanley joined the ICE as head of education and learning in 2008 with a remit to inspire future engineers. Among his many significant achievements thereafter, he:

- introduced the first 14-19 schools strategy that brought together STEM ambassadors;
- ran the education and careers panel;
- wrote the first ICE safeguarding policy;
- worked on the planning group for the inaugural Big Bang!;
- contributed to Professor John Perkins' Review of Engineering Skills in 2013 and the follow-up report in 2019.

Andrew's management of the QUEST scholarships programme has arguably been his most outstanding contribution. This has supported about 1,200 engineering students since 2008. On his watch, the scheme broadened its reach, enhancing the reputation and the diversity of the ICE's membership (half of the scholarships over the past eight years have gone to women).

## INTERNATIONAL MEDAL

The International Medal is awarded to a civil engineer in one of the following categories:

- A member of the Institution of Civil Engineers or a civil engineer who is not a member of the Institution of Civil Engineers who had prime responsibility for an outstanding contribution to civil engineering outside the United Kingdom, or;
- A civil engineer resident outside the United Kingdom and not a citizen of the United Kingdom, who had prime responsibility for an outstanding contribution to civil engineering inside the United Kingdom.

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### Winner:

#### Rajiv Iyer

Rajiv Iyer was selected for the medal based on his trailblazing work in nuclear engineering. He's the technical civil lead for the techno-commercial offering of the 'nuclear island' portion of EDF's proposed 9,900MW power plant near Jaitapur, India. Iyer has shown great commitment to integrating global best practices in this project. As it becomes a benchmark for responsible nuclear engineering, it's poised to influence future projects and encourage a global shift towards sustainable approaches in the field, aligning with the UN Sustainable Development Goals 7, 9 and 17.

## Prizes that promote the Institution and the civil engineering profession

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### BEV WAUGH AWARD

Awarded to recognise a leader/individual who quietly broadens the perspective of the team, leads with kindness, values the views of others, and constructively questions the status quo to create a people centred 'Best for project' culture.

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#### Highly commended:

**Joe Bloxham**

#### Winner:

**Martha McGowan**

Martha McGowan was selected as the winner for her contribution to the British Antarctic Survey. As a project manager, she led more than 60 people at Rothera Research Station to deliver a new wharf that would be big enough to accommodate Royal Research Ship Sir David Attenborough. Her team worked harmoniously alongside the station's staff, scientists and designers to deliver the facility on time and on budget between October 2018 and April 2020.

### JOHN MITCHELL MEDAL

This medal was instituted in 2008 by the John Mitchell Memorial Trust to commemorate the distinguished geotechnical engineer, John Mitchell. It is awarded annually on geotechnical practice, site-based innovation, or geotechnical safety.

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#### Winner:

**Yvonne Ainsworth**

Yvonne Ainsworth is a highly accomplished and professional geotechnical specialist in the piling and foundation fields, and who is a role model for professionals at all levels. She has a real focus on the future of our industry, including diversity and equality. She is a recognised technical specialist in her own right, but combines this with solid business acumen, great communication skills and great professional values. She is an inspirational leader and is passionate about driving innovation and continuous improvements in construction, particularly in piling.

# Prizes that promote the Institution and the civil engineering profession

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## TOM BARTON AWARD

The award, dedicated to the late Tom Barton, celebrates engineering and construction professionals who have demonstrated excellence in implementing initiatives to improve quality, productivity, safety and sustainability by eradicating mistakes.

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### **Honourable mention:**

**Ray Coleman**

### **Winner:**

**Pedro Costa**

Pedro Costa, WSP's request-for-information lead for the High Speed 2 project at Old Oak Common in west London, was this year's winner. On starting in this role in January 2023, he led an initiative to streamline the process of recording and communicating changes and clarifications. This created the project's changes and clarifications register (C&CR), a smart spreadsheet used to record all relevant information. All external communications between WSP and other stakeholders in the project are now mandatorily included in the C&CR.

## PRESIDENT'S MEDAL

Awarded annually to a person, whether or not a member, who has performed any service to the Institution, to civil engineers or to the profession of civil engineering, that has not otherwise been recognised. The President decides who receives the medal and particular regard is shown to service that reflects the priorities and objectives that the President has identified for his/her year in office.

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### **Winner:**

**Sally Sudworth**

Sally Sudworth is a chartered engineer and environmentalist, and has been a champion for sustainability and climate change for many years. Her experience includes being a trustee and company secretary for RedR UK, an ICE fellow, a fellow of the Institution of Asset Management (IAM) and the Women's Engineering Society (WES). Sudworth is a non executive director at MICL, has also been the global head of sustainability and climate change at Mott MacDonald, led the net zero carbon strategy for infrastructure at the UK Environment Agency, been flood exec for the Northwest, and director for the low zero carbon hub in Wales. She founded and chaired the climate emergency group at WES, founded and co-chaired the climate emergency programme at the IAM (where she co-authored papers on nature based solutions and climate resilience for asset management). Sudworth was awarded both the IAM President's special award and the Isabel Hardwich medal for her work in sustainability and climate change.

# Emergency procedures

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## Security

Please do not leave bags or personal belongings unattended at any time as they may be removed. Cloakroom facilities are available on the Ground Floor.



## Smoking

is not permitted anywhere in the building.



## Doors

must not be wedged open. Fire exits and escape routes must be kept clear at all times.



## The fire alarm

is a two-tone klaxon. On hearing the alarm evacuate quickly by the nearest fire exits. No one should stop to collect personal belongings. Do not use the lifts.



## Fire exits

are indicated prominently in all rooms and corridors. You should familiarise yourself with those exits that are pertinent to you. Exits must not be obstructed.



## Assembly points

are located at Little George Street (corner of Parliament Square), Storey's Gate and Prince's Mews. Remain with your meeting at the assembly point until authority is given by the Incident Controller to return to the building.



## First Aid

In the event of first aid being required, please speak to reception or any member of staff who will call for a first aider to come to your assistance.



## Bomb threat procedure

A threat to this building would be most likely to arise from a device placed outside rather than inside the building. There are various areas within the building, which have been identified as 'safe' areas, bomb shelter areas (BSA). Visitors must be evacuated to their designated BSA as quickly as possible. Marshals will be on duty at strategic points to guide people in the right direction.

In the event of a bomb threat the internal telephone system and loud hailers will be used to inform all areas of a threat.



## Institution of Civil Engineers

ICE is the leading source of professional expertise and excellence in civil engineering. Established in 1818, for over 200 years we have been qualifying, teaching and uniting engineers.

With more than 97,000 members around the world, we link government to industry and place civil and infrastructure engineers at the heart of society.

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