

**Institute of Refrigeration J&E Hall International Gold Medal  
Nomination Form – return by at 31<sup>st</sup> January 2021**

Name of nominee
Current employment
Postal Address
Email
Outline the area of work and unique practical contribution to refrigeration, air conditioning or heat pumps:
Name of person making the nomination
Your organisation
Email address
Date

Please return to the address above or email [lisa@ior.org.uk](mailto:lisa@ior.org.uk)

If shortlisted, nominees will be invited to submit full details of their work and a CV.

# THE J&E HALL GOLD MEDAL

## Rules and Conditions

1. The J&E Hall Gold Medal was initiated by Hall-Thermotank Limited in 1977 as the Hall-Thermotank Gold Medal to mark the centenary of the company's involvement (originally as J & E Hall Limited) in the field of refrigeration in 1877.

2. The Institute of Refrigeration will award the Gold Medal annually to the person considered to have made the most noteworthy contribution to the advancement of refrigeration and related technologies.

3. The Institute shall have the authority to withhold the award in any year if it considers that none of the nominations is of a sufficiently high standard.

4. The winner of the award each year will be presented with:

- The IOR J&E Hall Gold Medal to hold for one year.
- A solid silver replica of the Gold Medal engraved with his or her name to keep.
- A sum of £5,000.

5. The award will be international and nominations will be accepted from all parts of the world.

6. Nominations may be made by any organisation or individual, with the permission of the nominee. Individuals may nominate themselves but such nominations must be authenticated by another responsible person with sufficient knowledge to do so. Nominations for work carried out by more than one person will be accepted but no more than two people will receive the award each year.

7. Each nomination must be supported by evidence of the contribution or achievement on which the nomination is based. This should take the form of a statement, in English, not exceeding 1,000 words with such supporting documentation and illustrations as may be necessary. The volume of evidence should be kept to the minimum necessary. The panel shall be empowered to call for additional evidence if they so wish.

8. All nominations received by the due date will be considered by a Panel chaired by the President of the Institute of Refrigeration, or his appointee and comprising four other members chosen annually by the Institute.

9. The Panel shall be empowered to call on specialist advice if it so wishes.

10. In considering the nominations, the Panel will pay special regard to the practical nature of the contribution on which the nomination is based and to its originality. Work of a theoretical nature may be accepted provided its practical viability can be clearly demonstrated.

11. The contribution cited in the nomination need not necessarily have been made within the preceding year. Work carried out over an extended period will be admissible but there should be some evidence to indicate that it has reached its culmination, or that its significance has become apparent relatively recently.

12. The Panel will bear in mind that the purpose of the award is to encourage progress rather than to acknowledge past achievement.

13. The Gold Medal will not be awarded to the same person for two years in succession.

14. The winner will normally be expected to attend a presentation ceremony in London. He or she may be asked as a condition of acceptance to present a paper to the Institute of Refrigeration.

15. The decision of the Panel on any matter will be final.

16. Nominations should be address to:

The Secretary, Institute of Refrigeration, Kelvin House, 76 Mill Lane, Carshalton, Surrey SM5 2JR, United Kingdom.

17. Nominations must reach the Secretary of the Institute not later than the date specified. An announcement of the award will be made in December and the presentation will normally be made on the occasion of the Institute's Annual Dinner.

## WINNERS OF THE J&E HALL GOLD MEDAL

### 2019 – David Pearson

David Pearson has been responsible for the development of a series of heat pump systems that have provided a realistic and attractive solution to the challenge of delivering cost-effective low-carbon heat to whole communities. The concept used in Dremmen Norway, employed three systems in series, with two stages of compression on each stage, each harnessing the full value of the higher grade heat sources within its circuit to deliver a world-class COPh of 3.05 at 90°C from seawater at 8°C. This system is still achieving success some 9 years after the plant was first set to work. His work has provided a model for how our sector can play a major part in achieving cleaner, healthier cities and contribute to the drive towards net zero.

### 2018- Mark McLinden

Mark McLinden has addressed the challenges of the identification of new, environmentally friendly refrigerants. Mark led a team that identified the fundamental thermodynamic characteristics of the “ideal” refrigerant and then carried out a systematic and exhaustive screening of a comprehensive database of 60 million molecules to identify molecules having those characteristics. The 60 million molecules were ultimately reduced to a set of the 27 “best” candidates. This work has provided authoritative, technical guidance to the HVAC&R and chemical industries for developing a new generation of refrigerants with low global-warming potential (GWP).

### 2017- Eckhard Groll

Eckhard Groll has contributed to the field of compressor evolution. This work has helped manufacturers to improve existing compressor design, test new design concepts and shorten development times. He has achieved this through the development and application of comprehensive simulation models for a range of hermetic positive displacement compressors. He and his thermal systems research team have modelled scroll, rolling piston, reciprocating, linear, rotating spool, bowtie, Z-, and S-RAM compressors for various refrigerants including carbon dioxide.

### 2016 – Tom Watson

Tom Watson has been responsible for new product development for centrifugal compressor technology, and before his recent retirement, was primarily involved in technical areas related to refrigerant applications, aerodynamics, bearing design and motor applications. Tom was awarded the J&E Gold Medal in recognition of his work which has resulted in significant improvements in the efficiency of chillers and industrial heat pumps. This has included the introduction of large capacity oil-free compressors and the safe application of low GWP flammable refrigerants.

### Previous awards

2015 – IAN TANSLEY  
2014 – DR REINHARD RADERMACHER  
2013 – PROF RUZHU WANG  
2012 – DR ROBERT HADFIELD  
2011 – PROF PREDRAG HRNJAK  
2010 – DR DONALD CLELAND  
2009 - MR JURGEN SEUSS  
2008 – MR RON CONRY  
2007 – PROFESSOR JOHN THOME  
2006 – DR ANDY PEARSON  
2005 – DR IAN EAMES  
2004 – PROFESSOR CLARK BULLARD  
2003 – DR R AGRAWAL  
2002 - PROFESSOR A CAVALLINI  
2001 – DR D DIDION  
2000 – DR AC CLELAND  
1999 – MR M LAWRENCE  
1998 – DR R RADEBAUGH  
1997– NORMALAIR-GARRETT LTD, UK  
1996 – MR S SUNDARESAN  
1995 - DR J PAUL AND MR E JAHN  
1994 - DR A FUTAKAWA  
1993 - DR F FRANKS  
1992 - PROFESSOR K. WATANABE  
1991 – DR S.F. PEARSON  
1990 – PROFESSOR K. STEPHAN  
1989 – PROFESSOR P.O.FANGER  
1988 – PROFESSOR R.L. WEBB  
1987 – MR C. BAILEY  
1986 – DR W.R. MALEWSKI  
1985 – PROFESSOR W.F. STOECKER  
1984 – PROFESSOR G. LORENTZEN  
1983 – PROFESSOR G. GLEW  
1981 – MRS M.M. DOYLE  
1979 – DR H. SIXSMITH  
1978 – DR A D APPLETON  
1977 – B. ZIMMEN

## **GUIDELINES FOR PREPARING A SUBMISSION for the J&E Hall Gold Medal**

Submissions for the IOR J&E Hall Gold Medal must be made in writing or by email to the Institute of Refrigeration, Kelvin House, 76 Mill Lane, Carshalton, Surrey SM5 2JR.UK. Email – [lisa@ior.org.uk](mailto:lisa@ior.org.uk).

**Once a nomination is received the IOR will contact the nominated person who will be asked to submit the following supporting information:**

1. A statement describing the relevant work. The statement should not exceed 1000 words, and should be written in English. It should follow a format which includes the following headings:

- Practical applications of the contribution
- Originality of the work
- Future potential

2. Additional relevant material such as reports or publications may also be taken into account. This should be included as a separate attachment.

3. An up to date CV or CVs for the individual(s) responsible for the work.

4. Details of a suitable person who could comment on the work that has been carried out, including a contact address and outline of their involvement in the work.

**Deadline for Nominations:** 31st January 2021

**Deadline for supporting information to be supplied by the person nominated:** 28th February 2021