

**2018 CAETS Board Membership:**

Officers

Lucio Cáceres, Uruguay (ANIU) – CAETS President  
Tuula Teeri, Sweden (IVA) – CAETS President-Elect  
Elías Fereres, Spain (RAI) – CAETS Past-President  
Ruth David, United States (NAE) – CAETS Secretary/Treasurer

Members 2017-2018

Vladimir Andročec, Croatia (HATZ)  
Frank Behrendt, Germany (acatech)  
Trueman Goba, South Africa (SAAE)  
Ulrich (Ueli) Suter, Switzerland (SATW)

Members 2018-2019

Roger McCarthy, United States (NAE)  
Lucas P. J. J. Noldus, Netherlands (AcTI.nl)  
Stane Pejovnik, Slovenia (IAS)  
István KRÁLIK, Hungary (HAE)

**2019 CAETS Board Membership:**

Officers

Tuula Teeri, Sweden (IVA) – CAETS President  
**Oh-Kyong Kwon (NAEK) – CAETS President-Elect – NOMINATED**  
Lucio Cáceres, Uruguay (ANIU) – CAETS Past-President  
Ruth David, United States (NAE) – CAETS Secretary/Treasurer

Members 2018-2019

Roger McCarthy, United States (NAE)  
Lucas P. J. J. Noldus, Netherlands (AcTI.nl)  
Stane Pejovnik, Slovenia (IAS)  
István KRÁLIK, Hungary (HAE)

Members 2019-2020 – NOMINATED

**Hugh Bradlow, Australia (ATSE)\***  
**LI Xiaohong, China (CAE)**  
**Panu Nykanen, Finland (TAF)**  
**Dr. Sanak Mishra, India (INAE)**

\*Argentina deferred 2019 Board Nominee due to expected nomination of President-Elect in 2020. Australia was next on the Rotation Schedule.



**Professor Oh-Kyong Kwon**  
**President of the National Academy of Engineering of Korea**  
**HYU Distinguished Professor of Hanyang University**

**E-Mail: [okwon@hanyang.ac.kr](mailto:okwon@hanyang.ac.kr)**

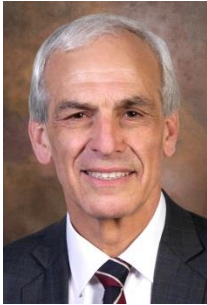
**Dr. Oh-Kyong Kwon** received the B.S. degree in electronic engineering from Hanyang University, Seoul, Korea, in 1978, and the M.S. and Ph.D. degrees in electrical engineering from Stanford University, Stanford, CA, USA, in 1986 and 1988, respectively.

From 1987 to 1992, he was with the Semiconductor Process and Design Center, Texas Instruments Inc., Dallas, TX, USA, where he was engaged in the development of multichip module technologies and smart power integrated circuit technologies for automotive and flat panel display applications. In 1992, he joined Hanyang University, Seoul, Korea, as an assistant professor at the Department of Electronic Engineering, where he is now a distinguished professor. Dr. Kwon had served the positions of the Dean of Engineering School, and the Provost and the Senior Vice-President of Hanyang University. He also served as an Executive Vice-President of the National Academy of Engineering of Korea, where he is now a President.

Dr. Kwon had served as a committee member of IEEE International Solid-State Circuits Conference, IEEE International Electron Devices Meeting, and IEEE EDS Distinguished Lecturer. He received Fellow Award and Special Recognition Award from Society for Information Display, Appreciation Award from SEMI (Semiconductor Equipment and Materials International), Young Engineer Award from National Academy Engineering of Korea, and Best Patent Award from Korean Intellectual Property Office.

His research interests include mixed mode signal circuit design, analog front-end circuit design for various sensors and bio-medical instruments, the driving methods and circuits for flat panel displays, high-speed interface circuits for DRAM and display systems, smart power integrated circuit technologies, and electrical noise modeling for high-speed system-level integration. He has authored and co-authored over 345 international journal and conference papers and holds 229 U.S. patents.

## ATSE BOARD OF DIRECTORS 2018



**Professor Hugh Bradlow FTSE  
President**

Professor Bradlow is President of the Australian Academy of Technology and Engineering. He is also an independent Non-Executive Director of Silicon Quantum Computing Pty Ltd.

He was previously Chief Technology Officer and Head of Innovation at Telstra, responsible for the R&D of new technologies and their introduction into Telstra's business. Subsequently he became Chief Scientist at Telstra, in which role he advised the Telstra Board and management on the longer term technology directions and technology disruption anticipated to impact Telstra and its customers.

Before joining Telstra in September 1995, Professor Bradlow was Professor of Computer Engineering at the University of Wollongong in Australia and Professor of Electrical Engineering (Digital Systems) at the University of Cape Town.

Professor Bradlow is a graduate in electrical engineering from the University of Cape Town in 1973 and received the D.Phil. degree for research in experimental nuclear physics from the University of Oxford. He is an Emeritus Professor of the University of Wollongong, a Professorial Fellow of the University of Melbourne, and a recipient of a Centenary Medal from the Commonwealth of Australia.

He is globally recognised as a thought leader in telecommunications and was elected as the joint 2009 Australian Telecommunications Ambassador of the Year, named by Global Telecom Business as one of the most 100 most influential telecommunications executives in the world and Smart Company designated him as one of the 12 most influential people in Australian ICT.

## Bio of Prof. LI Xiaohong



Prof. LI Xiaohong is the President of the Chinese Academy of Engineering (CAE). He holds a PhD in engineering and is a member of CAE. He also serves as a member of the Discipline Assessment Group of the Academic Degree Commission of the State Council, an Executive Director of China Coal Society, and a Chief Scientist of the 973 Program. His past positions include Vice Minister of Education of China, President of Wuhan University, President of Chongqing University, and the Director of the State Key Laboratory of Coal Mine Disaster Dynamics and Control.

Prof. LI studied in the Mining Department of Chongqing University during 1978 to 1985 and obtained his Bachelor's Degree and Master's Degree. In 1993, he obtained his PhD in mining engineering in Chongqing University. He was a research fellow at the University of California Berkley, USA from 1989 to 1991, and a visiting scholar at Queensland University of Technology, Australia in 1996.

As an expert in mining safety technologies, he has been committed to the research of coal mine gas control. His research has generated remarkable economic and social benefits through the new developments in ways to prevent mining gas accidents and improve gas mining efficiency. Prof. LI is a winner of the China National Funds for Distinguished Young Scientists and an honorary professor at the University of Queensland, Australia. Prof. LI has also been honored with the National Scientific and Technological Progress Award and international academic awards for several times. He has 6 books and over 200 papers published.

Prof. LI was a member of the 11<sup>th</sup> CPPCC, a representative of the 12<sup>th</sup> NPC, a delegate of the 18<sup>th</sup> CPC National Congress, and is now a member of the 19<sup>th</sup> CPC Central Committee.

**1. Full name and date**

- Nykänen, Panu Kullervo
- male
- CV 15.6.2018

**2. Date and place of birth, nationality, current residence**

- b. 17.3.1961 Tampere, Finland
- Finnish
- Kerkkoontie 189, 06530 Kerkkoo, Finland

**3. Education and degrees awarded**

- PhD, University of Helsinki, Finnish and Scandinavian history, y. 2000
- Phil. Lic. University of Helsinki, Finnish history, y. 1995
- Bachelor of Arts, University of Helsinki, archaeology, y. 1992
- title of docent: Finnish and Scandinavian history, University of Helsinki, 18.6.2014
- title of docent: History of technology, Helsinki University of Technology, 1.6.2005–31.5.2010

**4. Other education and training, qualifications and skills**

- Coast Guard Diploma, y. 2007
- CEVNI - Code européen des voies navigation intérieure diploma, y. 2010

**5. Linguistic skills**

- Finnish, mother tongue
- Swedish, English, some German, French

**6. Current position**

- Academy Secretary, Council of Finnish Academies CoFA. 28.8.2017 – 15.10.2018
- Secretary General, Finnish Academy of Technical Sciences TTA. Y. 2011–

**7. Previous work experience**

- Researcher, University of Jyväskylä, 1.6.2014–15.3.2017
- Secretary General, Council of Finnish Academies, 2013–2014
- Adjunct Professor, Aalto-University, 2010–2013
- Researcher, Helsinki University of Technology 1999–2010
- Several different positions, University of Helsinki, National Board of Antiquities etc.

**8. Research funding as well as leadership and supervision**

- Several research fundings, 1994–2015. Alfred Kordelin Foundation, Outokumpu Ltd Foundation, Hallin Foundation etc.

- Officially appointed supervisor to undergraduate and post-graduate students/doctoral students, several.

**9. Merits in teaching and pedagogical competence** (if required, complement by submitting a teaching portfolio)

- responsibility over several university courses e.g. Aalto-university Kon-0.4710 History of Industrialization - Suomen teollistumisen historia, Kon-4720 History of research and technology - teknillisen tutkimuksen ja opetuksen historia ja Kon-4730 Cultural history of Technology - Tekniikan kulttuurihistoria 2010, 2011 ja 2012. University of Jyväskylä HISA514 Euroopan taloushistoria, October 2015, 2016; History of Technology - Suomen tekniikan historia HISTPO16 helmikuussa 2015; HISA512 Changes in Economic history - Suomen elinkeinoelämää muuttavat tekijät October – November 2014; HISA511 Global Economy November 2015.

**10. Awards, prizes and honours**

- Society for the History of Technology in Finland, honorary member, y. 2008
- Society for the History of Technology in Finland, silver medal, y. 2002
- Right to use the cap of the engineering profession, y. 2001
- Honorary prize “pultti” N:o 8, Engineers Association in Helsinki – Helsingin Insinöörit, y. 2002

**11. Other academic merits**

- service as a pre-examiner or as an opponent of a doctoral dissertation, as a member in dissertation committees, several cases
- evaluation of academic/scientific or artistic competence (e.g. title of docent), several cases
- memberships and positions of trust in scientific and scholarly societies, Chair and secretary of the National committee for the history of technology, y. 2010–2017
- editor-in-chief, Tekniikan Waiheita, Finnish Journal for the History of Technology 1995 - 2001
- referee for scientific and scholarly journals

**12. Scientific and societal impact of research**

- total number of publications: 39 major publications (peer reviewed and monographs), app. 155 other articles (partly peer reviewed) and publications

**13. Positions of trust in society and other societal merits**

- Finnish Academy of Technical Sciences TTA, ordinary member 2009–
- Board member, Vice president International Council of Museums, International Committee University Museums and Collections UMAC 2007–2016
- Society for the History of Technology in Finland, Board member 2002–2013, 2015 –, Chair 2004–2007
- Universeum, European Academic Heritage network, Reflection group member 2007; Interim board member 2007–2010; Board member 2011–2012
- Finnish Armed forces, corporal 1981



**Dr. Sanak Mishra**

Dr Sanak Mishra is an icon of the Indian steel industry and is acclaimed as a brilliant scientist and Metallurgist. He is presently Senior Advisor, Mishra Dhatu Nigam Limited (MIDHANI), Hyderabad. Previously, he has held the appointments of Secretary General and Executive Head of the Indian Steel Association, and Vice President of ArcelorMittal and Chief Executive Officer of its Projects in India. He established in Kolkata the ArcelorMittal Design & Engineering Centre as a global group facility for the company. Earlier he had held the position of Managing Director of the Rourkela Steel Plant of the Steel Authority of India Ltd (SAIL). Dr Mishra obtained his B.E. degree in Metallurgy from the Indian Institute of Science, Bangalore. He then received M.S. and PhD degrees in Metallurgical Engineering from University of Illinois at Urbana-Champaign, USA. He is credited with the discovery of magnetic clusters in dilute alloy systems of iron, nickel and copper, and the discovery of the texture memory effect in grain-oriented electrical steels. In 1980, he had received the prestigious Alexander von Humboldt International Fellowship from Germany and spent two years as Visiting Scientist at the Aachen Technical University wherein he worked in the areas of deep drawing automotive steels and energy efficient electrical steels. He is a recipient of numerous awards and recognitions including the National Metallurgist Award from the Ministry of Steel, Government of India; JRD Tata Award for Excellence in Corporate Leadership in Metallurgical Industries and the Platinum Medal of the Indian Institute of Metals. He was conferred the Centenary Year Distinguished Alumni Award from the Indian Institute of Science, Bangalore in 2008, and the Distinguished Merit Alumni Award from the Department of Materials Science & Engineering at the University of Illinois at Urbana-Champaign (USA) in 2010. Dr. Mishra served as the President of the Indian Institute of Metals during 2009-10.