

## Henri Coriou Award Winners

for outstanding contributions to corrosion science  
and engineering in the nuclear field

### 2016:

**Prof. David Tice**, Wood, UK.

*Short CV:* He is Amec's Chief Corrosion Scientist, has published numerous papers and led a number of research programmes on various aspects of environmentally-assisted cracking (EAC) in high-temperature LWR environments, including corrosion fatigue and stress corrosion cracking over a period of 35 years. He has directed a number of major projects on corrosion fatigue of ferritic and austenitic stainless steels. He was a former chairman of the 'Int. Co-operative Group on EAC in Water Reactor Environments (ICG-EAC)' and is a member of the 'EPRI Expert Panel on Environmentally-Assisted Fatigue'. He is also a visiting Professor at The University of Manchester's Materials Performance Centre responsible for technical direction of collaborative research on corrosion and EAC.



### 2017:

**Prof. Hannu Hänninen**, Aalto University, Finland.

*Short CV:* He started his career in 1980 with his Ph.D. in physical metallurgy, from Helsinki University of Technology and at VTT Technical Research Centre Finland, where he mostly stayed. He has been a very active member in the nuclear corrosion community for four decades and is about to retire from the Department of Engineering Design and Production at the School of Engineering of Aalto University in Finland, where he is/was head of the Engineering Materials research group. He made significant contributions and initiated and successfully managed many large projects in both, the field of EAC & EAF of LWR structural materials and of waste container corrosion in final repositories for nuclear waste. Fusion and GEN-IV topics complement his broad nuclear corrosion portfolio. Furthermore, he was active in academic teaching and education for more than three decades and, in this function has supervised more than 40 PhD students and many Post-Docs. He was and is an active member in many international working groups and committees in the nuclear (corrosion) field, e.g., as Chairman and Working Group Leader in the International Cooperative Group on Environmentally-Assisted Cracking of Water Reactor Materials (ICG-EAC) or as an expert at the Swedish National Council for Nuclear Waste.



**2018:**

**Dr. Gérard Pinard Legry,**  
Consultant, France.

*Short CV:* As engineer from the Ecole Supérieure de Chimie de Paris, he obtained his PhD in 1969 with a thesis on the corrosion and mechanical properties of martensitic steels. He then joined the Corrosion Department at the CEA (French



Atomic Energy Commission) where he rapidly was appointed head of the Aqueous Corrosion Unit before becoming head of the Corrosion Department in 1984, succeeding Henri Coriou. His work includes not only EAC studies in PWR primary and secondary water, but also the selection of materials for reprocessing plants and nuclear waste overpacks for storage and disposal. He has also been involved in fast breeder reactor issues, as well as in the corrosion behaviour of materials for fusion energy. He has been a key person in nuclear corrosion science and engineering for all the industrial developments in the nuclear fuel cycle. In 1993 he was awarded the Charles Heichner medal by the SF2M (French Society of Materials and Metallurgy) in recognition of his work. Alongside his extensive research work, he was an active member of EFC WP4, being its Secretary between 1986 and 1994. Being actively involved in standardization as President of AFNOR commission A05A on corrosion of metallic materials until 2000, he was also President of the CEFRACOR (French Corrosion Society) from 1999 to 2011. At the same time, he was also an associate Professor at the INSTN (National Institute of Nuclear Science and Techniques) and at the EAMEA ("Atomic School") of Cherbourg.

**2019:**

**Mr. Hans-Peter Seifert,**  
Paul Scherrer Institute, Switzerland.

*Short CV:* Hans-Peter Seifert (Master of Science in Material Science and Engineering at the Swiss Federal Institute of Technology ETH, Zürich, Switzerland) is currently Deputy Head of the Laboratory for Nuclear Materials, Leader of the Structural Integrity Group and Manager of the INTEGER research program on material ageing at the Paul Scherrer Institute. His areas of specialization are: environmentally-assisted cracking of LWR structural materials, corrosion and



electrochemistry in high-temperature water, ageing mechanisms and structural integrity of LWR primary pressure boundary components and reactor internals. He has more than 20 years of experience in environmentally-assisted cracking and fatigue and has initiated and led many large projects in this field. He is very well-known in the international nuclear corrosion community. His work on stress corrosion cracking contributed to the understanding of the phenomena and therefore helped to further increase the safety of PWRs and BWRs, not only in Switzerland but also in the rest of Europe and in the US.

**2020:**

**Mrs. Ulla Ehrnstén,**

VTT Technical Research Centre of Finland Ltd., Finland.

*Short CV:* Ulla Ehrnstén is working at VTT as a principal scientist in the field of nuclear materials and root cause analyses. Her more than 30 years' research experience covers the performance of nuclear materials in different kinds of nuclear environments (BWRs, PWRs, VVERs, and GenIV systems). Root cause analyses for both, national and international customers has been key in her work since the early days at VTT. She is also teaching nuclear materials behaviour at the Aalto University and at Åbo Academy University, and at the STUK (the Finish nuclear safety authority) she is giving courses for newcomers in the nuclear field. She is the project manager and key scientist in several Finish research projects in the area of nuclear materials and was leader of VTT's nuclear materials team. She is currently the project manager of the largest SAFIR2022 project 'BRUTE', which deals with the characterisation of reactor pressure vessel weld metal trepans removed from the Barsebäck 2 pressure vessel. She has authored more than 150 scientific articles, several hundred customer reports and three book chapters. She also participated in several EU-projects. She is a working group leader in the International Cooperative Group on Environmentally-Assisted Cracking, a scientific board member of Environmental Degradation and Fontevraud conferences and has been a steering committee member in several European energy/nuclear safety research alliances or councils.