



The Jury – Valencia, 14-19 September 2007

The jury is composed of a president and 14 other jury members. They carry out their duties as individuals and not as representatives of an institution or country. The members of the jury are selected on the basis of scientific criteria to represent their discipline. They are drawn from both academia and industry. The Commission appoints the Jury annually. At least one third of the jury members are replaced each year in accordance with normal Commission procedures.

President of the Jury

Hansen, Vagn Lundsgaard
Technical University of Denmark

Vagn Lundsgaard Hansen is Professor of Mathematics since 1980 at the Technical University of Denmark and Scientific Director of LearningLab-TUD since 2005. He earned a Masters degree in mathematics and physics from the University of Aarhus, Denmark, 1966, and a PhD in mathematics from the University of Warwick, England, 1972. He has authored numerous research papers in mathematics (geometry, topology, global analysis) and several books. Research interests also include mathematical education and the history of mathematics. He was Chairman Committee for Raising Public Awareness of Mathematics appointed by the European Mathematical Society, 2000-2006. Invited speaker "International Congress of Mathematicians, Beijing 2002" and invited regular lecturer "10th International Congress on Mathematical Education, Copenhagen 2004". He is President Danish Academy of Natural Sciences since 1984 and Member European Academy of Sciences (Brussels) 2004. He was Member of the Danish Natural Science Research Council, 1992-98, and functioned for four years in this period as vice-chairman.

Members of the jury

Chaleyat-Maurel, Mireille
University Paris V

Mireille Chaleyat-Maurel is a former student of the Ecole Normale Supérieure de Paris (1965-1968). After her thesis in Mathematics, she was Professor at the University Panthéon-Sorbonne and currently, she is Professor at the University René Descartes (Paris V). Her research interests are in Probability Theory and include Filtering Theory and Stochastic Differential Equations. In addition to her teaching and research duties, she has been involved in raising public awareness in Mathematics for the past twenty years. She acted as President in the IMU/UNESCO Committee for the World Mathematical Year 2000 and was the coordinator of the project "Maths in Action" for the European Science Week (2000). She was awarded (with a team of three collaborators) the "d'Alembert Prize 2001". Together with M. Alarcon, M. Chaleyat-Maurel manages the team who has realized the travelling exhibition "Experiencing Mathematics".

Csermely, Peter

Semmelweis University Budapest

Professor Csermely obtained his degree in chemistry at the Eötvös University Budapest. He is currently a professor of biochemistry at the Semmelweis University in Budapest. His major fields of study are molecular chaperones (www.chaperone.sote.hu), networks and game theory (www.weaklink.sote.hu). In 1995 professor Csermely launched a highly successful initiative, which provides research opportunities for more than 10,000 gifted high school students (www.nyex.info). He extended this for a nationwide talent support movement in Hungary in 2007. He wrote and edited ten books (including the *Weak Links* at Springer in 2006) and has published two hundred research papers with a total citation over 2500. He is the vice president of the Hungarian Biochemical Society, the past president of Cell Stress Society International, an Ashoka Fellow, was a Fogarty and Howard Hughes Scholar and received several other national and international honors and awards including the 2004 Descartes Award of the European Union for Science Communication.

de Baar, Marco

European Fusion Development Agreement (EFDA)

Marco de Baar is presently Head Tokamak Physics Group at the FOM institute for Plasma physics in the Netherlands. His scientific interests are: Modeling of 3D electromagnetic turbulence and structure formation in tokamak plasmas with dominant Electron Cyclotron Resonant Heating, Fuelling of high performance plasma discharges with central turbulence suppression and the development of high performance plasmas at high current and high radiation fraction. IN addition, Marco is responsible for the development of supporting technology for a system for plasma heating in ITER. Up to April 2007, Marco was Head of the Operations Department in the Close Support Unit at JET (Abingdon, UK) where he was responsible for the definition, execution and monitoring of the JET Operation Contract and for the implementation of the Fusion Technology programme. As a deputy to the Head of the FOM-Electron Cyclotron Wave (ECW) Group in Jülich, Germany, he supervised the construction of a high power ECW quasi-optical transmission line, and the mounting of a new ECW-launcher for localised heating and current drive in TEXTOR.

Goossenaerts, Jan B.M.

University of Eindhoven

Jan B.M. Goossenaerts is an assistant professor at the sub-department of Information Systems, Eindhoven University of Technology (TU/e) in the Netherlands. He holds degrees in mathematics (B. Sc. and Ph.D.), computer science (M. Sc.) and philosophy (Certificate), all from the Catholic University of Leuven in Belgium. Jan has been a grantee of the Japan Science and Technology Fellowship of the European Union. He has edited several books and published in a number of journals including *Computers in Industry*, *Information & Management* and *Production Planning and Control*. On the instrument-side, his research involves model driven development, model sharing among repositories, society wide architectural frameworks, and ontological and epistemological stratification in system modelling and knowledge representation.

Research on the deployment of information and communications technology (ICT) in multi-level work-systems (society, sector, firm, and person) is driven by a vision to improve competitiveness, sustainability and inclusivity. An overarching challenge in his work is the

design and implementation of institutions and utilities for a knowledge-intensive global economy so as to accelerate its responsiveness to local needs.

Kempkes Bettina

GSF-Research Centre for Environment and Health, GmbH

Dr. Bettina Kempkes obtained her Diploma in biology at the University of Freiburg and her Doctorate in Natural Sciences from the Albert-Ludwigs- University of Freiburg and the Max-Plack-Institute for Immunbiology. She is currently leading a research group at the Haematologicum of the GSF in Munich. Her main research interest is the elucidation of molecular mechanisms linking herpesviral infections to cancerogenesis. She teaches tumorbiology at the Ludwigs-Maximilians-University of Munich and is actively promoting the PhD programme at the GSF.

Messer-Yaron, Hagit

University Tel-Aviv

Hagit Messer-Yaron received the Ph.D. in Electrical Engineering from Tel Aviv University (TAU), ISRAEL, and after a post-doctoral fellowship at Yale University, she joined the faculty of Engineering at Tel Aviv University in 1986, where she is a Professor of Electrical Engineering. From 2000 to 2003 she was serving as the Chief Scientist and the head of the directorate of science at the Ministry of Science. From 2004 to 2006 Professor Messer-Yaron was the head of the Porter school of environmental studies, since November 2005 she is the Vice President for Research and Development at Tel Aviv University.

Prof. Hagit Messer-Yaron, Fellow of the IEEE, is a world leading expert in statistical signal processing with applications to source localization, communication and environmental systems. She has published numerous journal and conference papers. She is also interested in various aspects of higher-education science policy, including bioethics, science-society interplay, and commercialization of academic research. Hagit Messer-Yaron is also committed to the advancement of women in science and technology.

Phillips, Chris

Imperial College, London

Chris got his Ph.D. working with picosecond lasers, studying ultra-fast photoemission from semiconductors. After a spell travelling, and working for the BBC, he was appointed to a University lectureship, at the age of 28, as part of the newly established semiconductor research activity at Imperial College London where, apart from the odd year in California, he has stayed. Since then he has specialised in optical spectroscopy and semiconductor optoelectronics, developing a range of experimental techniques and device ideas which has led to > 170 publications. He was appointed to a full professorship in 2000 and was elected a Fellow of the Institute of Physics in 2006. Lately he has become interested in using artificially structured quantum semiconductors as "Artificial atoms". These are a means of duplicating, in solid state crystals the intriguing quantum optical effects, such as ultra slow light propagation, which have been seen by the atom spectroscopists. He is also a committed teacher and science communicator, whose lively lecturing style has won him many awards.

Pohjolaian, Seppo
University of Tampere

Seppo Pohjolaian received an M.Sc. degree in Engineering, a Masters degree in Technology, and the Ph.D. degree in Applied Mathematics, all from Tampere University of Technology (TUT). Since 1972 he has been with the Department of Mathematics at TUT, where he became Professor in 1998. He has been a Research Fellow at the Academy of Finland and founded the Hypermedia Laboratory at TUT in 1994. Currently he is head of the Department of Mathematics and director of the Hypermedia Laboratory. His research interests include mathematical control theory, mathematical modelling and simulation, distance learning, open learning environments, and development of hypermedia courseware. He has led several research projects and written a number of journal articles and conference papers in all these fields.

Pollak, Johannes
Austrian Academy of Sciences, Institute for European Integration Research

Associate Professor Johannes Pollak obtained his Masters in political science and philosophy from the University of Vienna and the London School of Economics and Political Science, his Doctorate from the University of Vienna. Postgraduate Studies at the Institute for Advanced Studies in Vienna. Pollak has been Jean Monnet Fellow at the Schuman Centre for Advanced Studies at the European University Institute in Florence. Currently he is a Leverhulme Visiting Fellow at the University of Reading and Senior Visiting Fellow at the London School of Economics.

His main research interests comprise the European integration process and the history of political ideas, in particular the development of new modes of democracy at the supranational level.

Pulham, Colin
University of Edinburgh

Colin Pulham studied Chemistry at the University of Oxford where he obtained a DPhil. in inorganic Chemistry. After a further two years of research at Oxford, he moved to the University of Edinburgh where he is currently a senior lecturer in the School of Chemistry with research interests that include the study of the effects of high pressures on molecular compounds such as pharmaceuticals, the use of high-temperature molten salts for metal extraction, and novel synthetic methods for the preparation of metal nitrides. For the past ten years he has developed an outreach programme to promote public engagement with science that highlights the relevance of the chemical sciences to our everyday lives. He was recently awarded the Royal Society Kohn Award for Excellence in Engaging the Public with Science Communication.

Puus, Uno
University of Tartu, Cybernetica AS

Uno Puus studied both Mathematics and Psychology at the University of Tartu, Estonia, where he obtained his masters degree in Informatics. From 1989 to 1993 he has been working as a teacher at the Nyo school for mathematics, physics and chemistry. At the same time, he participated as supervisor in the international summer school for young programmers in Novosibirsk in 1986 and 1987. Since 1998 he is working as head of laboratory at the Cybernetica R&D Company in Estonia, which is active in the field of data

security and software development. He continues PhD studies at the University of Tartu in the field of Informatics.

Rausa March, Amparo

University of Valencia

Since 2004, Dr. Amparo Rausa March has been working as Advisor to the Rector of the University of Valencia. Prior to this position, she was the Director of the Brussels Office of the Spanish Inter-Ministerial Commission of Science and Technology, has also worked for the EC, the Regional Government of Valencia, and the UN Industrial Development Organization in Vienna.

Born in Valencia, Spain, Dr. Rausa March received a Bachelor and PhD degree in Chemistry from the Universidad de Valencia. After completing her dissertation, she conducted research in the Chemistry and Chemical Engineering Departments at the Massachusetts Institute of Technology in the field of enzyme technology. She widened the scope of her professional interests at the J. Hopkins University with a Master in Public Policy. Dr. Rausa's fields of expertise and interest range from chemistry to RTD Policy and International Relations.

Strgar, Jelka

University of Ljubljana

Jelka Strgar graduated in Biology at the University of Ljubljana. She made a specialisation in The Holden Arboretum in Cleveland (USA). After her return she set up a pedagogical programme for visitors of The Botanical Gardens of the University of Ljubljana. Since 1989 she has been a teaching assistant at the Biotechnical Faculty and has been involved in an internal training in the field of biology for elementary and secondary school teachers. Since 2005 she is President of the Biology National Examination Commission and as an external biology expert she collaborates with The Pedagogical Institute, which is in charge for TIMSS and PISA projects in Slovenia. Her research is focused on didactics of biology; pre-service and in-service training for teachers, and written materials in educational process.

Vermeij, Peter

European Patent Office

Peter Vermeij, born in 1955 of Dutch nationality, is Vice President VP2 of the European Patent Office. In his last position as Deputy Secretary-General to the Dutch Ministry of Economic Affairs, his main responsibilities included the administrative organisation with a strong focus on efficiency, effectiveness and customer relations. His other main duties have been the liaison with the Employee Representation Board and trade unions, serving as Chief Information Officer and as Chairman of, amongst others, the Management Committee. In particular, Peter Vermeij was responsible for the agencies of the ministry, including the Netherlands Patent Office. Prior to this position, he worked in other governmental agencies such as the Dutch Ministry of Agriculture, Nature and Food, lastly as Director IT, Quality and Facility Management.