The International Academy for Production Engineering

NEWSLETTER

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Contributions for the next issue of the Newsletter may be send to the CIRP office in Paris or directly to the editor at: j.meijer@utwente.nl
Dear Colleagues,

Fewer than two weeks remain before our General Assembly in Boston and I assure you the organizers are working hard to make it the best GA ever. Boston is an exciting city and the conference facilities are first rate. I am confident that we will have a very productive and enjoyable technical and social meeting. Dene and I look forward to seeing all our old friend and making new ones. We expect many of the new research affiliates to attend and I want to encourage you all to make them very welcome in your usual CIRP manner.

I am currently in Singapore (amazing how small the world is getting) and the “Straights Times” says “Signs of a return to expansion emerge.” I’m sure we all hope that this is true and the fact that I read it here is a testimony to how important international academies like CIRP will be in our truly global economy. Now, more than ever, our international cooperation is essential to the future of production engineering.

See you soon and wish you a pleasant journey to Boston

Bob.
News about Members

Professor Nam Pyo Suh awarded by ASMI

The Board of Governors has unanimously awarded professor Nam Suh the 2009 ASME Medal "for seminal contributions to the advancement of engineering through research in tribology, polymer processing, metal processing, design and manufacturing; as well as contributions to engineering education and research infrastructure.".

Formal presentation of the award is scheduled to take place at the Honors Assembly on Monday, November 16, 2009 during the ASME International Mechanical Engineering Congress and Exposition in Lake Buena Vista, Florida, USA, November 13-19, 2009, at the Walt Disney World Swan & Dolphin Hotel.

Outstanding Teaching Award for Professor Brinksmeier

Professor Brinksmeier has received the Berninghausen-Award in June 2009 for outstanding teaching and its innovation by the University of Bremen. Since 1992 this award is commemorated by the University of Bremen. With this award unusual commitment and special creativity of lecturers are appreciated. Prof. Brinksmeier is honoured, because he understands to incorporate his research reputation and his research results into practical knowledge transfer in a special way. The jury has considered the combination of individual quality criteria of good teachings and his presence in student projects with innovative ideas.

Professor Fred van Houten member of Acatech

Professor Fred van Houten has been selected as member of the German Academy of Science and Engineering. He is the first Dutch member of this Academy. Acatech was founded in 2002 and represents the interests of German sciences and technology in Germany and abroad with 282 members. As a working academy, acatech supports policy makers and society with technically qualified evaluations and far-sighted recommendations and promotes sustained growth through innovation. Prof. van Houten is the head of the Research group" Design, Production and Management", also comprising the chairs of Production Technology, Surface Technology and Tribology, Skin Tribology, Product Design, Product Realization, Packaging Design and Design History. He is Scientific Director of the Dutch Research School on Integral Manufacturing Innovation is member of the advisory board of the ministry of Economic Affairs for the Innovative
Eugene Merchant Manufacturing Medal of ASME/SME for Professor Pat McKeown

The Executive Director of ASME, the American Society of Mechanical Engineers, Mr. Thomas Loughlin has notified Professor Pat McKeown as the recipient of the 2009 M. Eugene Merchant Manufacturing Medal of ASME/SME. The Medal will be presented at the ASME International Conference in Florida, on Nov. 16, 2009.

Prof. Dr. -Ing. R. Wertheim at the Fraunhofer IWU

Professor Rafi Wertheim, our CIRP member and past president has started as a full staff member of the Fraunhofer-Institute for Machine Tools and Forming Technology IWU in Chemnitz, Germany from July 2009. Prof. Wertheim will be the division director of the main department machining technology at the Fraunhofer IWU, collaborating with Dr. Harzbecker and the other division directors of the institute.

After many years of activity in industry and academia, as well as in public and communal organizations in Israel and worldwide this is a new challenge for Prof. Wertheim and the Fraunhofer IWU in Chemnitz. Prof. Wertheim will continue to develop the professional, scientific, educational and industrial activities of the Fraunhofer Institute while collaborating with our CIRP members and friends worldwide.

Professor Ueda Vice President of AIST

Professor Kanji Ueda has been appointed to be Vice President of AIST (National Institute of Advanced Industrial Science and Technology) since the beginning of April 2009.

AIST is one of the top public research institutes in Japan, with a large number (over 6000) of researchers conducting cutting-edge research. Professor Yoshikawa was President until the end of March this year. AIST has delivered outstanding results at various stages, from basic to applied, in a wide range of fields including nanotechnology and materials, biotechnology, information technology, environment, energy, geology, and standards and metrology. Amid the current focus on realizing a safe and secure society while overcoming
global environmental and energy problems, AIST is playing an increasingly important role for strengthening Japan’s industrial competitiveness in the world. This appointment means one year earlier retirement from the University of Tokyo, but prof Ueda will continue his research activities at RACE and the University of Tokyo as well as before.

**News of the Corporate Members Group**

At Corporate Members Group meeting in Paris 2009 it was planned that the results of the roadmap will be reviewed at the CMAG meeting in Boston.

**Impact factor of the CIRP Annals**

After the unexpected decline last year now the latest (2008) numbers show that the actions to improve the impact factor have been successful.

<table>
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<tr>
<th>Year</th>
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<th>Total Cites</th>
<th>Impact Factor</th>
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CIRP Research Affiliate Network

After the successful kick-off meeting of the CIRP research affiliates in July last year in Aachen (see Newsletter 35) the network is well developing and proceeding.

Annual Meeting in Copenhagen, 1-4 July 2009

After an informal welcome reception at the Technical University of Denmark (DTU) on Wednesday evening, the first day of the Annual CIRP Research Affiliate Meeting 2009 started with the welcome address and keynote speech by Prof Gerry Byrne, who in a very critical way discussed how the press looks at the current situation of manufacturing within the global economy. Thereafter, Prof Leo Alting explained in his welcome address his vision of the CIRP RA network, which was followed by the welcome addresses by Profs Hans N. Hansen and Martin Grunow, who introduced DTU. After lunch, which of course was Smørrebrød (i.e. a slice of bread buried under a pile of, for example, fish, meat, and other good stuff) the first half of the afternoon was occupied with three workshops discussing the following topics: (a) The collapse of traditional manufacturing (this was related to a recent article published in The Economist), (b) The RA network within CIRP, and (c) The RA operative structure as a tool for effective network. The discussions afterwards concluded with the election of chair (Hans-Christian Moehring, University of Hanover), co-chair (Sotiris Makris, University of Patras) and secretary (Guido Tosello, DTU), which was felt appropriate given the growing size of the RA network. For the second half of the afternoon visits to a number of laboratories had been arranged, which gave a very interesting insight into some of the research going on in the Department of Mechanical Engineering at DTU. The first day concluded with a traditional Danish dinner in Copenhagen City Centre.

The second day kicked off with a guest lecture on “Management of Innovation”, given by Dr Claus Varnes from Copenhagen Business School, followed by a lecture from Prof Michael Hauschild on “Challenge of quantifying sustainability”. These guest lectures were followed by short presentations given by RAs who recently had joined the network in order to introduce themselves, and, thereafter, a number of technical presentations, covering the areas of Eco-design of micro products (Arnaud De Grave), Management perspective on eco-efficiency (Renzo Akkerman), Micro-assembly (Gualtiero Fantoni), Polymer micro
processing (Guido Tosello) and Energy savings research activities at Fraunhofer IAO (Steffen Koch). This second day concluded with an open discussion with Prof Byrne about how the CIRP RA network should progress.

The third and last day was all about deciding on an operative structure for the network and how to deal with administrative tasks, giving due regard to what had been agreed on the previous days. At around lunch time, after the final conclusion of this year’s CIRP RA network Annual Meeting and a tour around the Microfabrication Laboratory, the remaining delegates drove back into town to explore the beauty of Copenhagen.

At this point, we, the delegates, would like to thank our hosts, Arnaud De Grave, Guido Tosello and Renzo Akkerman, for all the effort which went into organising and running this event; we all enjoyed it very much. We would also like to thank Profs Leo Alting, Hans N. Hansen, Michael Hauschild and Martin Grunow, as well as Dr Claus Varnes for their interesting and informative presentations/speeches. Our thanks also go to Profs Leonardo De Chiffre and Andy Horsewell and Dr Peter T. Tang for showing us round their laboratories. And, last but not least, we would like to express our gratitude to Prof Gerry Byrne for joining us during these few days and for his valuable contributions, and for inviting us to Dublin for the CIRP RA Annual Meeting 2010.

Meetings of the CIRP Research Affiliates

- 10\textsuperscript{th} - 13\textsuperscript{th} July 2008: Kick-Off meeting (Aachen)
- 26\textsuperscript{th} August 2008: General Assembly meeting 2008 (Manchester)
- 10\textsuperscript{th} - 11\textsuperscript{th} December 2008: Strategic meeting (Hannover)
- 29\textsuperscript{th} January 2009: Paris meeting 2009 (Paris)
- 1\textsuperscript{st} - 4\textsuperscript{th} July 2009: Annual meeting 2009 (Copenhagen)
- 1\textsuperscript{st} - 4\textsuperscript{th} July 2009: Annual meeting 2009 (Copenhagen)
- 23\textsuperscript{rd} – 29\textsuperscript{th} August 2009 General Assembly meeting 2009 (Boston)

The 3\textsuperscript{rd} annual meeting in 2010 will be held in Ireland hosted by Professor G. Byrne, and CIRP RA colleagues Dr. G. O’Donnell, Mr. K. Tuffy and Mr. N. Pretorius.

It is obvious that RAs from the US or Asia have difficulties in attending the meetings in Europe. Hence, the idea was proposed to encourage holding open regional meetings outside Europe to allow further growth and structuring of the CIRP RA network.
From the secretariat

Chantal Timar-Schubert
Papers/Keynote Papers, CIRP meetings, the Website, candidatures for Membership, Internal Regulations.

Agnès Chelet
Financial aspects in CIRP: fees, page charges, or any kind of payment or invoice.

Future proposed events.
The aim of this new category on the CIRP site is to submit the dates for your future events (to be approved at the next Liaison Committee meeting). This will allow you checking if your dates are free in the calendar, and will as well reserve those dates for your conference. An "example event" is online in this category to explain you the simple way how to add events online. Nevertheless only few conferences have uploaded their dates online. With the growing number of conferences your help is needed to streamline the process.

PowerPoint Presentations on the web
Several authors have asked how to deliver their PowerPoint files to the web. The answer is easy: The STC secretaries will collect the files direct after the presentation and forward them to the CIRP office. The format will be just as it was presented in .ppt format. Afterwards they will be processed to uniform pdf’s without films etc. Authors may delete some “sensitive” slides. For more details see Newsletter 37 on CIRPnet.

Important dates:

General Assembly’s
23-29 August 2009, Boston, USA
22-28 August 2010, Pisa Italy
21-27 August 2011, Budapest, Hungary
19-25 August 2012, Hong Kong, China

January meetings
28-30 January 2009, Paris
20-22 January 2010, Paris
19-21 January 2011, Paris
25-27 January 2012, Paris
New Books

Professor W Brian Rowe announces the publication of the book “Principles of Modern Grinding Technology” by W Brian Rowe in April 2009 details are given at the Elsevier web site http://ees.elsevier.com. This book provides insights into modern grinding technology based on wide research and experience. It provides concise treatment of principles and shows how these principles lead on to latest technology developments. Every aspect of the process and the machine comes under the searchlight to show step improvements. Superb machines now produce optical quality finish due to two aspects of development: These are process control and machine design. It is the same for extremely high removal rates. This book shows how best quality is improved and costs brought down at the same time as output is increased. Examples illustrate enabling machine developments.

Academic positions

Professor in Quality Management and Manufacturing Metrology

The University of Erlangen-Nuremberg, Department of Mechanical Engineering in the School of Engineering invites applications for a Professor for “Quality Management and Manufacturing Metrology”. The successor to Prof. Dr.-Ing. Dr.-Ing. E.h. Dr. h.c. mult. Albert Weckenmann will be appointed October 2010 and should have particular experience in the research areas of multisensorial coordinate metrology of geometrical quantities including sensor data fusion, as well as Micro- and Nanometrology together with traceability. For details contact Prof. Dr.-Ing. Marion Merklein m.merklein@lft.uni-erlangen.de

Full paid PhD Position @Renault

Renault in Paris offers a full paid PhD position. The PhD Thesis would be done with the best Engineer school in France the Ecole Polytechnique. The called 'LMS' lab is one of our biggest in mechanics. Prof. Habibou Maitournam will be the PhD Advisor. The thesis will focus on the understanding of physical issues during the whole gear shaft manufacturing process. The goal is to predict deflections that occur during the fabrication or later, when the part is stored. French speaking is not required but English is required. Foreigners are greatly welcomed! For details contact Jean-Vincent le Lan, Renault SA, jean-vincent.le-lan@renault.com