



**The International Academy for Production Engineering**

# **NEWSLETTER**

**N° 45 – November 2012**

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# From the President



Dear CIRP colleagues

It is a great privilege and honour to be the President of CIRP for this year and I wish to thank all the colleagues who have put their confidence on me.

I like to define CIRP a unique academy for its peculiar aspects enforced by a long story and tradition started in 1951 thanks to the great insight of our founding fathers, firstly the French Engineer General Pierre Nicolau. In those hard times after the second World War it was important to promote the scientific understanding of production engineering technologies and to increase the productivity of manufacturing

industries. It was also necessary to create a Science of Production through a large and internationally based effort. After 60 years CIRP members may be proud to observe that the goal has been achieved. In more recent times the vision of CIRP has been to contribute to the global economic growth and well-being of society. It may appear very ambitious in these difficult years of often uncontrollable globalization, but we, as CIRP members, must put our best energies in the fulfillment of that vision: the well-being of society is a precious value which deserves and requires big efforts. Production science experts must have a considerable role in this challenge. For this reason the Task Force on Globalization has been working hard in the last years to prepare a White Paper which will provide the CIRP view and guidelines on this complex and multidisciplinary issue. I am confident of the success of this initiative.

CIRP is a complex institution, well balanced between Academy and Industry and therefore has a complex structure. It is not and it must not be a rigid structure: as in current production processes CIRP needs flexibility. However changes in organization require caution, time and the general approval of CIRP members. An example of change which is going to be managed in 2013 is the TRACK structure. About five years ago it was decided to introduce and test the TRACKS, groups of STCs aiming to give chances of joined work and integrated activity of specialists: this was a response to the criticism towards the rigidity of the STC structure. Now the results of the five year experiment must be evaluated and a final decision will be taken by a vote.

CIRP will continue to be the successful and unique academy we know and appreciate if able to face the challenges of this fast changing world. May I outline only a few points?

New processes have been invented (like nanotechnology) which require specialists in basic disciplines (experts in Physics, Chemistry, etc.). CIRP will be pushed to enlarge its traditional borders to new unrepresented competences.

Research and markets are dominated by an international strong competition The question is: will the past successful cooperative research still be possible? Will it be possible to make research results on strategic topics freely available to participants as in the past years?

CIRP should have a political influence and should be listened and properly considered by national and international political responsible when taking strategic decisions on research choices and funding.

Within the promotion of a sustainable globalization human factors and education should be taken into appropriate account. CIRP should reconsider these issues , already dealt with in the past, in its organization.

Last but not least CIRP will continue to have a successful and active future if it conserves the spirit of friendship which has always encouraged and made many activities easier.

As colleagues and as friends I look forward to meeting you in Paris, January 2013!

With friendly and warm regards

Marco Santochi  
President of CIRP

# News about Members

## Knighthood announcement – professor Niels Bay



Her Majesty Queen Margrethe of Denmark conferred the Knighthood of Dannebrog on Professor, PhD, DSc, Dr.h.c. Niels Bay (on the 4th of May 2012),

Professor Niels Bay has initiated and headed a large number of research programs: Bulk and sheet metal forming, Resistance welding, Tribology in metal forming and Manufacturing of superconductors.

He is member of scientific advisory groups, organizing advisory groups etc. for a large number of international conferences. He received the Alexander Foss Gold Medal for his D.Sc. thesis and the JSTP International

Prize for Research and Development in Precision Forging, awarded by Japanese Society for Technology of Plasticity, 2005 in recognition of outstanding research in the field: “Development of theory and test methods for friction, lubrication and wear in metal forming”.

## Professor Neugebauer elected Fraunhofer president.

Prof. Reimund Neugebauer has been elected as the new president of the Fraunhofer Gesellschaft. He has taken office of this new and challenging position starting from October this year. The Fraunhofer Gesellschaft is the largest institution for applied research in Europe with currently 60 institutes in Germany, more than 20.000 employees and a budget of 1.85 billion Euro per year.

Professor Neugebauer is a full professor of machine tools and forming technology at the Chemnitz University of Technology since 1993. There, he founded the Institute for Machine Tools and Production Processes IWP, and has been its director since 2000. In addition, he served as dean of the Faculty of Mechanical Engineering from 2003 to 2006. In 2007 he organized the CIRP General Assembly in Dresden. Neugebauer is member of numerous national and international scientific institutions and associations.

He served as president of the German Academic Society for Production Engineering for the 2010–2011 term. He is a member of the German Consortium of Forming Engineering AGU, and is a Fellow at the International Academy for Production Engineering CIRP, he is a member of the German Academy of Technical Sciences Acatech and founding president of the Industry-Club of Saxony 1828.

Reimund Neugebauer has developed the Fraunhofer Institute for Machine Tools and Forming Technology IWU in Chemnitz into a global leading partner to the automotive and machine building industry. With locations in Dresden, Augsburg and Zittau, it expanded its fields of research to include mechatronics, medical technology and lightweight construction. With “resource-efficient production,” his current area of focus, Neugebauer has provided an important impetus that fostered a paradigm shift toward the security and development of value creation throughout Germany.



## **Professor W. ElMaraghy fellow of the Canadian Academy for Engineering**

The 25th anniversary of the Canadian Academy for Engineering (CAE) held at 21 June 2012, Ontario featured the induction of new Fellows. Amongst them was Dr. Waguih ElMaraghy, Professor and Head of the Department of Industrial and Manufacturing Systems Engineering (IMSE) at the University of Windsor. His citation read:

*Dr. Waguih ElMaraghy was Chief Design Engineer in Industry where he worked on the development of the award winning GO Bi-level commuter coaches. Since joining the Universities of Western Ontario in 1986, and Windsor in 1994, he has excelled in engineering education and research, and published in top journals.*

The Canadian Academy of Engineering (CAE) comprises many of the country's most accomplished engineers, who have expressed their dedication to the application of science and engineering principles in the interests of the country and its enterprises. The Academy is an independent, self-governing and non-profit organization established in 1987 to serve the nation in matters of engineering concern. The Academy is an active member of the International Council of Academies of Engineering and Technological Sciences (CAETS), which involves 26 leading countries.



## **Professor Hiroyuki Yoshikawa received Honorary Membership in the Society of Manufacturing**

Professor Hiroyuki Yoshikawa received Honorary Membership in the Society of Manufacturing at their Annual Honors Banquet on June 4, 2012 in Cleveland, Ohio. In some 80 years, SME has only recognized some 65 Honorary Members and Yoshikawa is the third recipient from Japan. Professor Yoshikawa, the 1993-94 CIRP President, is the director general of the Centre for Research and Development Strategy, Japan Science and Technology Agency where he is leading the design of national research programs for realizing the sustainable prosperity in society by integrating sciences: natural, medical, technological, social and literal. Through Yoshikawa's recent positions as president of the University of Tokyo, president of Open University and president of the National Institute of Advanced Industrial Science and Technology, he developed a method of integration of different disciplines for sustainability research. Yoshikawa's academic subject is general design theory, which is common through different engineering disciplines and is the most crucial to develop logical planning of manufacturing. The intelligent manufacturing program was established based on his philosophy. Yoshikawa was president of the International Council for Science from 1999 to 2003 and during that time worked for its reformation.



## Professor Altintas receives the SME Albert M. Sargent Progress Award

Yusuf Altintas has been recognized with the SME Albert M. Sargent Progress Award for his leadership in research, education and industrial practice in the analysis and prevention of machine tool vibrations, by developing a fundamental understanding of chatter stability and machine tool design. Altintas obtained his bachelor's from Istanbul Technical University (1975), and his master's (1980) and PhD (1987) in Canada. He joined the University of British Columbia and founded the Manufacturing Automation Laboratory in 1986. Altintas spent four years in industry as a machine tool and manufacturing engineer. He currently conducts research on metal



cutting, machine tool vibrations, control and virtual machining. Altintas has published more than 120 archival journal articles with more than 4,000 citations, and a widely used textbook. He is a fellow of SME, ASME, CIRP, Pratt & Whitney Canada, the Canadian Academy of Engineering, Tokyo University and the Royal Society of Canada. He holds an honorary doctorate degree from Stuttgart University and received the Killiam Teaching Prize at UBC (2011)

Professor Altintas has received Pratt & Whitney Canada's University Partnership, APEG BC's highest award the Alan MacLauchlan Award of Professional Engineers Association of British Columbia (photo left), and the 2011 Gold Medal of Engineers Canada.

(photo right). This because, as he said with a smile, most probably because my family name fits. (Altintas means Gold Stone in Turkish).

He has also received the Fellow of Royal Society of Canada award in Ottawa (the first manufacturing engineering academic who has been inducted in Canada, photo below).

Professor Altintas currently holds the NSERC P&WC Industrial Research chair professorship to develop next-generation virtual high-performance machining technology.



Led by prof. Altintas, Canadian Machining Researchers formed the NSERC CANRIMT Strategic Network in Machining Research. The group has a mandate to develop a comprehensive machining process modeling integrated with structural dynamics, kinematics, control and metrology of machine tools. The research algorithms will be integrated to UBC's Virtual Machining and Virtual CNC systems. CIRP members M. Elbestawi, M. Balazinski, S. Park, P. Koshy, H. Attia and D. McIntosh are involved with the project along with additional ten colleagues from Canadian Universities. NSERC CANRIMT welcomes the exchange of students from the laboratories of CIRP colleagues [www.nserc-canrimt.org](http://www.nserc-canrimt.org).

## Professor Duffie receives the SME F. W. Taylor Research Medal



Professor Neil A. Duffie is recognized with the SME Frederick W. Taylor Research Medal for publishing significant seminal research findings based on the application of modern control theory to manufacturing operations leading to a better understanding of processes, equipment and facilities. Duffie received his PhD in mechanical engineering in 1980, MS in engineering in 1976 and BS in computer science in 1974, all from the University of Wisconsin-Madison. Duffie is professor and past chair in the Department of Mechanical Engineering of the University of Wisconsin-Madison. His main research interests are distributed system control and manufacturing process automation. Duffie is a fellow of SME, CIRP and ASME. He serves on the council of CIRP and is a member of its Editorial Committee. Duffie is past chair of CIRP's Scientific Technical Committee for Production Systems and Organizations. He

served as SME's 2008 president. Duffie has received the TRW Post-Doctoral Award in Manufacturing Engineering, the SME Outstanding Young Manufacturing Engineer Award and was a Mercator Guest Professor at the University of Bremen, Germany.

## Professor Brinksmeier receives honorary doctorate from RWTH Aachen

Our Fellow Prof. Dr.-Ing. habil. Dr.-Ing. E. h. Ekkard Brinksmeier who is one of the leading international experts in ultra precision machining has been honored by the renowned Technical University Aachen: The RWTH Aachen has awarded him the honorary doctorate degree at a commemorative event in Aachen for his outstanding achievements in his field of research.

The relations between Brinksmeier and his colleagues of the RWTH have been very close for many years. He has initiated the Collaborative Research Center "Process Chains for the Replication of Complex Optical Elements" (SFB TR 4) which is funded by the German Research Foundation (DFG) since 2001. Three universities are cooperating in this research center: the University of Bremen, the RWTH Aachen and the Oklahoma State University at Stillwater,



USA. It's objective is to lay the scientific foundations for a deterministic and economical mass production of optical elements with complex geometry.

Professor Brinksmeier about his award: "The RWTH Aachen is one of the most important technical universities in Germany and enjoys an excellent reputation worldwide. To be awarded with this distinction is a very particular appreciation of our work, especially against the background that the last honorary doctorate degree of the RWTH for an engineer was awarded 13 years ago."

*The awarding ceremony: Prof. Wolfgang Thomas, Chairman of the Academic Senate of the RWTH, Prof. Brinksmeier, and Prof. Ernst Schmachtenberg, Rector of the RWTH Aachen (from left to right).*

## **SME Honors Distinguished Engineers, Researchers and Educators**

The SME College of Fellows was created to honor those members who have made outstanding contributions to the social, technological and educational aspects of the manufacturing profession. The Class of 2012 SME Fellows exemplifies outstanding research, innovations and leadership. They represent nationally and internationally recognized individuals who have contributed much to their communities, the field of manufacturing and to the Society. Among them two CIRP members.

### **Professor Fritz Klocke elected to 2012 SME College of Fellows**



Professor Fritz Klocke studied manufacturing engineering at the TU Berlin, was a research fellow there at the Institute for Machine Tools and Manufacturing Technology until 1981 and then as head engineer until 1984, receiving his engineering doctorate in 1982. Klocke worked in industry from 1984 until 1994 at Ernst Winter & Sohn in Hamburg. In 1995, he joined RWTH Aachen as professor of manufacturing engineering technology, and since then, has been chair of manufacturing technology, co-director of the WZL Laboratory for Machine Tools & Production Engineering at the RWTH Aachen and head of the Fraunhofer Institute for Production Technology IPT in Aachen. Klocke was awarded the Otto-Kienzle Memorial Coin in 1985 by the Manufacturing Engineering University Group. The title of a doctor of engineering honoris causa (Dr.-Ing. E.h.) was bestowed on Klocke by the University of Hannover in 2006 for his outstanding achievements in science, his efforts in the industrial implementation of a broad range of manufacturing techniques as well as for his commitment in numerous scientific committees. The title doctor honoris causa (Dr. h.c.) was awarded to Klocke in 2009 by the University of Thessaloniki for his achievements in production science, his engagement in international cooperation's and his benefits as a teacher and supervising tutor of student engineers.

### **Professor Steven Y. Liang elected to 2012 SME College of Fellows**



Steven Liang is the Morris M. Bryan Jr. professor in mechanical engineering for advanced manufacturing systems at the Georgia Institute of Technology. He received his PhD in mechanical engineering in 1987 from the University of California at Berkeley. Liang was the institute's founding director of Precision Machining Research Consortium, director of Manufacturing Education Program and associate director of Manufacturing Research Center. From 2008-11, Liang served as chief technical officer, vice president, then president of Walsin Lihwa Corp., a publicly traded manufacturing entity with more than \$6 billion in revenue. His technical interests lie in precision engineering, extreme manufacturing and technology innovation. Liang has supervised more than 70 postdoctoral studies, PhD dissertations and masters' theses, and has authored in excess of 300 book chapters, archival journal papers and professional conference articles in these areas. He has been invited to deliver more than 60 keynote speeches and seminars at manufacturing industries, peer institutions and professional conferences in more than 20 countries on various topics related to manufacturing science and technology. Liang served as president of the North American Manufacturing Research Institution of SME (NAMRI/SME)

and chair of the Manufacturing Engineering Division of the American Society of Mechanical Engineers. He is the recipient of many prestigious awards including the 1991 Robert B. Douglas SME Outstanding Young Manufacturing Engineer Award, the 1995 SAE Ralph R. Teetor Education Award and the 2005 ASME Blackall Machine Tool and Gage Award.

### Professor Banabic President of ESAFORM



Professor Dorel Banabic has been elected President of ESAFORM (European Scientific Association for Material Forming). He is professor in the Department of Manufacturing Engineering and Director of the Research Centre in Sheet Metal Forming at the Technical University of Cluj Napoca, Romania.

ESAFORM is a non-profit scientific association having more than 1,300 registered members both in and outside of Europe propagating interest for all types of materials and all topics connected to Material Forming. One of the major achievements of ESAFORM is its annual conference on Material Forming, devoted to all material forming processes and to all types of materials. ESAFORM Conferences, organized each year, bring together around 300 participants. Another event is the creation of the [International Journal of Material Forming](#). ESAFORM stimulates applied research in academic laboratories, public organizations and industrial companies. The association encourages communication between specialists from different scientific disciplines, international projects and networks and co-operation between National, European and International organizations.

### Professor Yamazaki honored by the Kazuo Yamazaki R&D Lab

Computer-aided-manufacturing (CAM) industry innovator DP Technology Corp., creator of ESPRIT® has announced that it has dedicated its Camarillo, Calif., research and development center to esteemed colleague Prof. Kazuo Yamazaki in honor of his contributions to manufacturing automation. “It was our intention to honor Prof. Yamazaki with a lasting monument to his significant contributions to the manufacturing industry at large, and specifically for the guidance and inspiration he bestows upon the bright young minds that will help determine the future of manufacturing,” said CEO Dan Frayssinet of DP Technology Corp.

Prof. Yamazaki attended a ribbon-cutting ceremony at DP Technology’s corporate headquarters in Camarillo in early May, when he unveiled a plaque that adorns the wall of the company’s new Professor Kazuo Yamazaki R&D Lab and details the professor’s accomplishments.



*Prof. Kazuo Yamazaki cuts the ribbon that marks that opening of DP Technology Corp.’s new Professor Kazuo Yamazaki R&D Lab in Camarillo, Calif.*

## Professor Sato awarded by His Majesty of Belgium King Albert



Professor Hisayoshi Sato was honored by being awarded Commander in the Order of the Crown as Chairman of Chiyoda Gravure Corporation on June 13, 2012 on the occasion His and Her Highness Prince Phillip on behalf of His Majesty King Albert visited Japan as the leader of missionary for mutually promoting trade business. It was admitted that Chiyoda Gravure Corporation has contributed to Belgium economy by managing subsidiary Chiyoda Europa NV for the last 27 years by producing decoration papers by gravure printing. This realized by cordial will of his Excellency Ambassador Liebaut. He has been the chairman since 2012 after his retirement from Chuo University. It is a great honor and pleasure for the company and the all staff working in the company as well.

Chiyoda Gravure Corporation meets 65th year from September, 2012, since it was established in 1948 by founder late father of Chairman Sato based on his strong wish for restoration from war-devastation. Now the eldest son is in charge of carrying the business, and he has worked for application of gravure printing to publishing, packaging, decorating materials for building, and transferring to writing and industrial materials.

The recipient sincerely wishes that he could contribute not only to economic growth of the both countries, but to industrial development as basis of the growth under global competitive environment through innovative activity in the business.

## Professor Kruth receives FAME Award

During the 23<sup>rd</sup> International Solid Freeform Conference in Austin, Texas on August 6, Professor Jean-Pierre Kruth was awarded the senior **International Freeform and Additive Manufacturing Excellence Award** (FAME) award for his career long contribution to Rapid Prototyping and Additive Manufacturing. Prof. Kruth is the 4<sup>th</sup> recipient of this award after Prof. Phill Dickens, Prof. Gideon Levy and Prof. Dave Bourell.



Prof. Kruth's contribution was summarized as: "Prof. Dr. Ir. Jean-Pierre Kruth is full professor at the Katholieke Universiteit Leuven, Belgium, where he is responsible for Production Engineering research and education at the division PMA. He is Fellow of CIRP, Fellow of SME, Honorary member Romanian Society of Mech. Eng., founding board member of several companies including Materialise (1990-1997), Metris (1995-2009, now Nikon Metrology) and LayerWise (2008-today). He has been awarded the F.W. Taylor Medal (CIRP) and the Knight of the Laser Technology award (Erlangen), the Industrial and Academic Career Award in Virtual and Rapid Prototyping (Leiria, Portugal)."

Kruth's contribution to AM goes back to 1990, when he started academic research on stereolithography. Almost simultaneously he co-founded Materialise. This company rapidly grew to one of the largest AM companies employing some 1000 people with branches all over the world. In 1991 the research activities were enlarged from stereolithography for production of polymeric products to direct selective laser sintering/melting of metallic products, a domain where the Leuven research team still holds a leading position. In 2008, Kruth successfully spun off LayerWise, a company dedicated to RP/RM of metallic components for industrial and medical applications.

# General Pierre Nicolau Award

The General Pierre Nicolau Award 2012 has been presented to Professor Whitehouse.

Professor Whitehouse received his BSc Honours Degree in Physics at the University of Bristol at the age of 20. He joined the research Department of Taylor Hobson in 1960 by invitation as a researcher engineer working under Mr R E Reason. In 1969, he became the Chief Research Engineer at Taylor Hobson, a post he held until 1978. In 1974, he was elected an Active Member of CIRP and subsequently became Chair of STC “S” on Surfaces. In 1978, he became a full professor of Mechanical Engineering at Warwick University. In the same year, he initiated the Production Engineering section and it is now the highly successful Warwick Manufacturing Group which is one of the largest academic Manufacture groups in Europe. In 1990, he became Chief Scientist in the School of Engineering and took on the specially created title of Professor Engineering Science responsible for overall research activity.



Professor Whitehouse is well regarded as the world authority on surface and nanometrology. He has lectured in 37 countries and over 40 keynote presentations on those subjects. He holds 22 patents and has written 250 technical papers and 6 books. His “Handbook of Surface Metrology” is widely considered the classic in this field. In 1990, he initiated the world’s first journal on Nanotechnology for the Institute of Physics. It now has an impact factor of 4.

Professor Whitehouse has been awarded many prestigious medals and honours, including two “Lifetime Achievement Awards” for his work; one by the National Physical Laboratory as the “Champion of Metrology” and one by the Society for Precision Engineering of the US which cites him as the recognized “Father of Digital Metrology”. The culmination of his work has been the integration of the subjects of surface and nanometrology in his “Handbook of Surface and Nanometrology” by Taylor and Francis in 2011.

For Professor Whitehouse’s lifetime contribution to digital and nanometrology, he is presented the 2012 CIRP General Pierre Nicolau Award.

# F.W.Taylor Medal



The 2012 F W Taylor Medal has been presented to Dr Simone Carmignato of Italy.

He has presented a paper entitled “Traceable volume measurement using coordinate measuring systems” in STC P at the 2011 General Assembly held in Budapest. The paper deals with the traceability of volume measurements based on coordinate metrology. The paper proposes and compares different methods for obtaining traceable volume measurements, based both on contact and non-contact coordinate measuring techniques. It gives a good solution of the current problem of traceability of volume measurement on freeform geometries using coordinate measuring systems. Dr Carmignato has been with the University of Padova in Italy since 2002, actively contributing to the research in the laboratory for

Geometrical and Industrial Metrology. He worked in the area of Coordinate Measuring Systems, tactile CMMs and optical 3D systems, as well as Computed Tomography.

Dr Carmignato’s scientific work is of very high quality and he has 10 presentations within CIRP and currently a Research Affiliate. He is also the co-author of 2011 keynote paper on CT for Dimensional Metrology. He demonstrated a comprehensive understanding of the intrinsic nature of coordinate metrology and has proven himself to be an outstanding researcher and scientist.

Dr Carmignato is presented the 2012 Taylor Medal and the CIRP community wishes him all the best for his future career.

# Notes from the Editorial Committee

The continuous actions to improve the quality of our Annals pay off by an again increased impact factor. For the 2011 edition of our Annals it has increased to 1.708. The 5 years impact factor is even higher (2.078).

<b>Impact Factor: 1.708</b>
<b>5-Year Impact Factor: 2.078</b>
<b>Imprint: ELSEVIER</b>
<b>ISSN: 0007-8506</b>

## Five-Year Impact Factor:

2011: 2.078

To calculate the five year Impact Factor, citations are counted in 2011 to the previous five years and divided by the source items published in the previous five years.

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Published by Thomson Reuters

More detail can be found on:

<http://www.journals.elsevier.com/cirp-annals-manufacturing-technology/>

This positive trend is reflecting the quality of our publications and the continuous effort to further improve our visibility. Especially the success in the latter category also needs some serious consideration in the near future. As can be seen from the following figure the number of submitted papers is continuously rising.

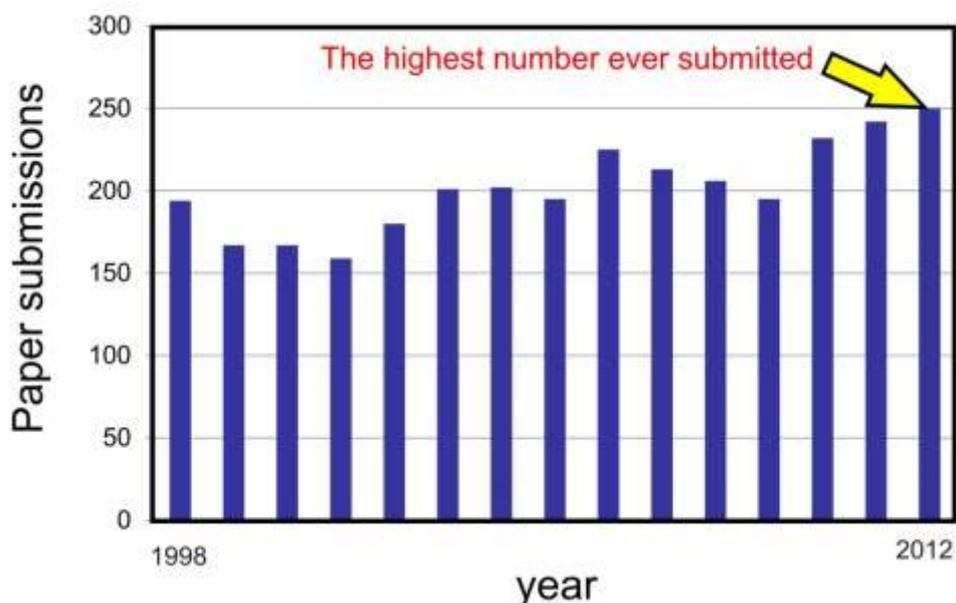


Figure 1: Paper submissions to the CIRP annals per year

In the regular agenda of any General Assembly 155 presentation slots are available, including the time needed for keynote paper presentations. If the above mentioned trend is continuing (and this is likely to happen, especially if the CIRP internet activity is launched to the outside world with the expected fast dissemination) our academy needs a decision on how to proceed with this rising number of paper proposals. So far the review decision is purely based on quality and we managed to “squeeze” all accepted papers in our agenda. But this might not be possible anymore in the near future. Thus our current President has installed a qualified advisory committee to deal with this important issue and to develop a solution that is presented to our academy preferably already at the next General Assembly in Copenhagen.

The Editorial Committee will do its best (as in the past) to assure the high quality and reputation of CIRP publications in the annals. It is worth to mention that our review process is still one of the fastest in the world as can be seen in the next figure.

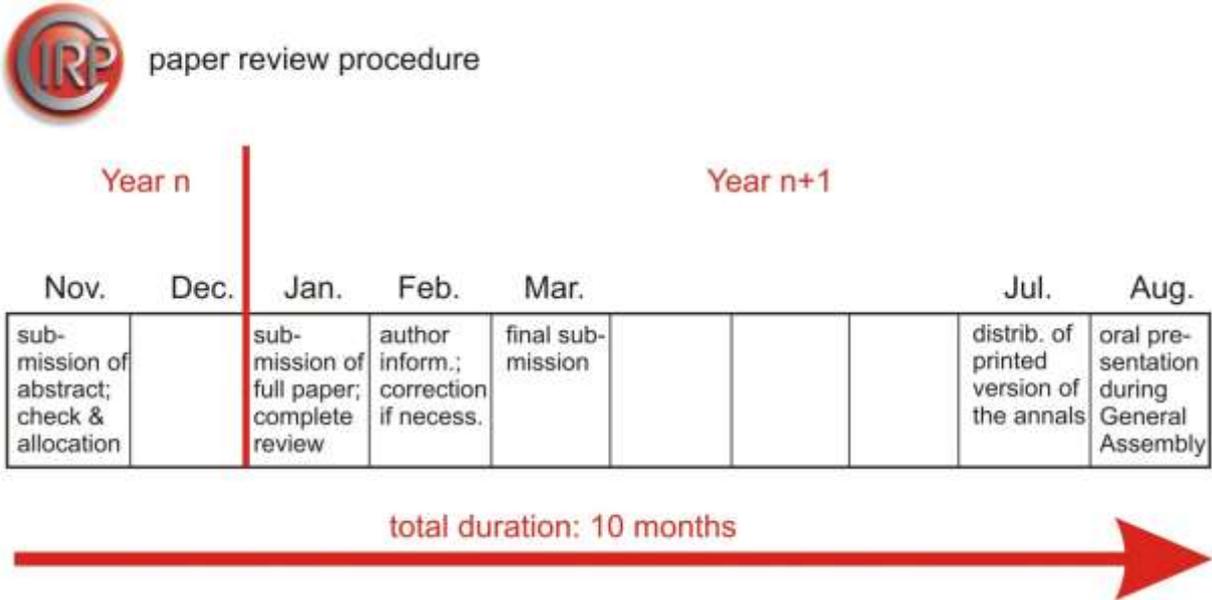


Figure 2: Time schedule for CIRP annals review

Bernhard Karpuschewski  
EC-Chairman

# From the Research Affiliates

This year was an exciting, continent-crossing year for our Research Affiliate network. So far our workshop meetings were always held in Europe, but this year we expanded to both the American and Asian continents. In May we had a workshop in Berkeley, USA and just before the General Assembly in August we had a workshop in Dalian, China.

## Research Affiliate Workshops

In Berkeley we had a lively discussion about the involvement of underrepresented countries in CIRP. Invited special reports from Mexico, India and Brazil were presented. Our main challenge is to promote CIRP and find outstanding young researchers in these countries.

In Dalian we opened with a presidential address by Prof. Andrew Nee. He proposed 2 key topics for us to discuss as RAs, namely the idea of having Science & Technology surveillance groups and how to enhance RA mobility. Additionally, we also had 22 technical presentations of on-going research that RAs are currently working on.

## On-going RA activities

To take advantage of our collective network a Round Robin testpart has been designed in a standard and a micro version and spread around our community. The testpart is produced using different techniques and also measured in different ways.



## RA agenda

Looking ahead, we have planned two interesting events already:

- 2<sup>nd</sup> CIRP Web Conference (CIRPe2013) on June 11-12, 2013.  
This will be the first sequel of the successful 1<sup>st</sup> Web Conference. The organization is in the hands of 3 very enthusiastic RAs. For more information visit: <http://lms.mech.upatras.gr/cirpe2013/>
- CIRP RA annual workshop on June 24-26 in Zaragoza, Spain.  
Our annual workshop is held in the School of Engineering and Architecture back to back with the 5th Manufacturing Engineering Society International Conference. For more information visit: <http://cirpra2013.unizar.es/>



Group photo at the RA workshop in Dalian, China; August 2012.

# 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.

- The new CIRP Website is now running and we encourage you to discover it and take time to check if all your details in your Profile have been correctly transferred from the former website. You will find your “dashboard” in the Login window, where all matters internal to CIRP are gathered.
- Also take the opportunity to register online to the next January meetings in Paris. Following their last meeting in Hong Kong, the Council members have agreed to ask guests invited to the January meetings for a participation fee, in order to compensate the raise of the meeting-centre price. That means that your guest will receive automatically, after you record her/him through the website, a Registration Form to be sent back to the CIRP Office.
- CIRP Annals: we remind you that the list of authors of a paper can no longer be modified after the Editorial Committee reviewing and acceptance of that paper in January.

## Modifications on the Internal Regulations

During the General Assembly in Hong Kong the following modifications on the Internal Regulations have been voted. Below the most important points:

### **Art. 8 Fellows (Emeritus) / Emeritus Members**

Those Associate members about to retire, who have served CIRP with distinction, may also be nominated as « **Emeritus Members** ».

They will have the same status as Fellows (Emeritus).

The requests for « Fellow (Emeritus) » and « Emeritus » membership must reach the Secretariat **together with a Form describing the past activities of the member in CIRP**, prior to the January Meetings.

### **Art. 21 Publications**

Addendum:

**Papers rejected in the Annals may not be presented in the Track, STC and CWG meetings.**

**Appendix 11. Sponsorships of Conferences & Sponsored Conferences**

2. The quality of the papers has to be assured by a paper evaluation / paper review. **Reviews can only be done on full papers (not on abstracts).**

6. Reporting. In agreement with the Conformance Committee, a written report and the list of participants have to be sent to the CIRP Secretariat within **1 month** (*instead of 3 months*) after the conference by the co-ordinator.

Additionally, the co-ordinator and/or the Conformance Committee have to give a brief oral report at the respective **Track Meeting** (*instead of STC meeting*).

## Important dates:

### January meetings

23-25 January 2013, Paris

29-31 January 2014, Paris

28-30 January 2015, Paris

### General Assembly's

18-24 August 2013, Copenhagen, Denmark

24-30 August 2014, Nantes, France

23-29 August 2015, Cape Town, South Afr.

21-27 August 2016, Guimaraes, Portugal

## The Paris Meetings



The Paris January meetings 23-25 January will be held in the renewed meeting-centre:

**Maison de la Mutualité.**

Address: 24 rue Saint-Victor, 75005 Paris.

Nearest Metro station: Maubert-Mutualité, line 10

Nearest RER station: St Michel (RER B)

For details see <http://www.cirp.net>

# Our Conferences

Date	CIRP Conferences	Place
29-30 Oct 2012	<a href="#">3rd CIRP Conference On Process Machine Interactions</a>	Nagoya, Japan
8-9 Nov 2012	<a href="#">4th CIRP IPS2 Conference</a>	Tokyo, Japan
4-6 March 2013	<a href="#">1st CIRP Conference On Biomanufacturing 2013 (CIRP-BioM2013)</a>	Tokyo, Japan
11-13 March 2013	<a href="#">5th CIRP IPS2 Conference</a>	
9-12 April 2013	<a href="#">17th CIRP International Symposium on Electromachining (ISEM XVI)</a>	Leuven, Belgium
17-19 April 2013	<a href="#">20th CIRP Conference On Life Cycle Engineering</a>	Singapore
29-31 May 2013	<a href="#">46th CIRP Conference On Manufacturing Systems</a>	Setubal, Portugal
13-14 June 2013	<a href="#">14th CIRP Conference On Modelling Of Machining Operations</a>	Torino, Italy
15-16 May 2014	<a href="#">5th CIRP Conference On Assembly Technologies and Systems CATS2014</a>	Dresden, Germany
19-21 May 2014	47th CIRP Conference On Manufacturing Systems	Windsor Ontario, Canada

Date	CIRP Sponsored Conferences	Place
12-15 Nov 2012	<a href="#">LANE 2012</a>	Fürth, Germany
13.-14. Nov. 2012	<a href="#">4th ICAFT 2012</a>	Chemnitz, Germany
30 Jan-Feb 2013	<a href="#">COMA'13 - International Conference On Competitive Manufacturing</a>	Stellenbosch, S. Africa
4-7 June 2013	<a href="#">7th International Workshop Conference On "Total Quality Management - Advanced And Intelligent Approaches"</a>	Belgrade, Serbia,
20-22 June 2013	7th International Conference And Exhibition On Design And Production Of Machines And Dies/Molds	Turkey
23- 25 Sept. 2013	<a href="#">11th Global Conference On Sustainable Manufacturing</a>	Berlin, Germany
6-9 Oct. 2013	<a href="#">5th International Conference On Changeable, Agile, Reconfigurable And Virtual Production CARV 2013</a>	Munich, Germany
3-4 April 2014	Conference On Manufacture Of Lightweight Components (ManuLight2014)	Dortmund, Germany
8 April 2014	<a href="#">ICMC 2014 / 3. ENIPROD Colloquium</a>	Chemnitz Germany

# New Books

## Ultra-precision engineering: from physics to manufacturing

Edited by Xiangqian Jane Jiang, Paul Shore, Pat McKeown and David Whitehouse



This issue puts the importance of ultra precision engineering into historical, present and future contexts. Numerous fields of science have been advanced through progress made in precision engineering to affect higher levels of accuracy. The sheer scale of specific science projects have in themselves resulted in new technologies and manufacturing practices. This issue provides an understanding of the long term drivers of precision engineering advancement.

In the Editors' opinion, precision engineers, are the people most likely to be able to 'save the planet', through the creation of clean energy generation. This challenge is essentially a large scale 'engineering problem', just like a man travelling to the moon and back.

The Discussion Meeting, from which this issue derives, highlighted not only the importance of ultra precision engineering but the changes that are taking place within the field. It showed the tremendous range of applications where ultra precision engineering enables applications to be undertaken, which otherwise would not have taken place. Examples range from the semiconductor industry, through automotive to aerospace

and massive physics projects. It is the enabling technology of the future in terms of added value and without which progress would stall.

*Special CIRP offer for print issue: £35 (usual price: £59.50) Email: [sales@portland-services.com](mailto:sales@portland-services.com)*

# Photos Hong Kong



All photos can be viewed and downloaded at <http://www.cirp2012.com/download.html>