



International Institution for Production Engineering Research

NEWSLETTER

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CIRP Office: 9, rue Mayran, 75009 Paris France

Tel +33 1 45262180 - Fax +33 1 45269215

e-mail cirp@cirp.net - web site: <http://www.cirp.net>

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The next issue of the Newsletter is scheduled for November 2005. Your contributions are much appreciated; you may send it to the CIRP office in Paris or directly to the editor at: j.meijer@utwente.nl preferable before **October 15th 2005**

Johan Meijer (Technical Secretary)

1. From the President

Professor Ichiro Inasaki

Missions of University and contribution of CIRP

There are three missions of university, transmission of intellectual properties of human being, creation, and return of enhanced values to the society. The first mission corresponds to education and the second to research and development. As the third mission, we want to contribute to the society with values developed and created through the first and the second missions. For us who are engaged in educational research on production technology at university, it is very important mission to develop human resources that support and facilitate growth of production technology



in the future. It is fundamental to encourage students to have interest in production technology so that they are aware of importance of the technology and that they become proud of working in that field. The importance of production technology is described very well in *Visionary Manufacturing Challenges for 2020* published by National Science Foundation in the U.S. in 1998:

“Manufacturing will remain one of the principal means by which wealth is created”.

I fully agree with the above-mentioned description. I am proud being a member of CIRP which leads the world in the field of technology, backbone of existence of human being. Production technology has made wide strides for increased accuracy and enhanced productivity. Also, it is important to pay attention to automation and robotization making progress. These achievements are based on advanced “technology” having foundation of scientific reasons. It is to note, however, that such automation and robotization have yet to reach the area of splendid “skill” of human being. I would like to underline the fact that many technologies were developed through skill of human beings. People’s skill is in a key position for production activities. *Excellent production engineers should be aware of the importance of skill and esteem highly of it, while we need to develop such human resources at university.*

At CIRP, there are a lot of members from universities around the world. There are opportunities to share information and opinions for the development of excellent researchers and engineers interested in production technology. Contribution of CIRP is expected in the aspect of development of human resources. To this effect, the Round Table of this General Assembly was addressed to the challenges for engineering education at university. Let’s make a contribution to further progress of production technology through development of human resources featuring:

V: Vitality, S: Specialty, O: Originality, and P: Personality

Hope to see you all in Antalya.

Ichiro Inasaki, President 2004-2005

2. About CIRP

The **International Institution for Production Research** (CIRP) was founded in 1951 as Collège International pour la Recherche en Productique to bring together research workers studying the application of scientific methods to production technology.



At present, CIRP has about 500 members representing some 40 different countries. The unique contribution of CIRP to manufacturing research is acknowledged by many of the world's leading companies and research institutes, who provide active support through the associate membership.

Today, CIRP is turning its attention to the use of computerized methods for manufacturing control, automation, robotics, interfacing and the computer-integrated factory of the future. The CIRP is organized in Scientific and Technical Committees (STC's) that are the groups responsible for coordinating the collaborative research. The main activities are:

- Studying new techniques and technologies;
- Organizing cooperative research, comparative testing and standardization;
- Collecting and analyzing bibliographies on manufacturing;
- Publishing synthesis reports on important technical problems;
- Organizing seminars and meetings on specialist topics;
- Preparing internationally accepted terminology;
- Contributing to International standardization organizations;
- Surveying the state of the art of research worldwide.

3. Personal

Royal distinction for Professor Kals

A farewell ceremony organised by his friends on his birthday on April 12th turned out to a big surprise for professor Huub Kals and most other attendees.

He received the high distinction to become Officer in the order of Oranje Nassau. On behalf of the Dutch Queen the distinction was delivered and pinned up by the major of Enschede, drs. J. Mans.

Professor Kals was honoured because his initiatives to promote the production technology at the Dutch Universities over the last forty years.

He has founded the national research school IPV combining all Dutch University research on manufacturing. Also his dedication for CIRP and the Network of Excellence van combining over 25 laboratories with over 200 participants was gratefully mentioned. As Emeritus professor he will continue to promote the production technology as an extraordinarily professor at the University of Stellenbosch, South-Africa.



Dr. Dirk Dauw elected to ASME Board

We are glad to announce that our CIRP colleague Dr. Dirk F. Dauw, has been elected to the American Society of Mechanical Engineers (ASME) Board of Governors. Governor Dauw, during his three year term will work closely with the President, President Elect and eight other at-large members of the Board to provide strategic directions for all aspects of the society and establish management, financial and legal policies necessary to govern ASME. In particular, special attention is given to



the “Continuity and Change” program to improve ASME’s commitment towards its members. Dr. Dauw (who is director at Invacare Europe in Switzerland) is the

only non-US citizen in ASME's Board of Governors. Before his term, Dirk F. Dauw was Vice President of Region XIII, the International Region of ASME; covering all ASME members outside the United States territory.

Colloquium to honour Professor R. Kopp



On 25 February 2005 a colloquium devoted to "Vision Innovation Production" to honour professor Kopp was held in Aachen. More than 270 guests from science, industry and politics attended the colloquium. In the first official part, presentations concerning current topics in metal forming and metal research were held. The winners of the prizes "Umformtechnik" sponsored by Schwermetall Halbzeugwerk and "Stahl fliegt" sponsored by FOSTA-Forschungsvereinigung Stahlanwendung were honoured as well. In the evening many participants joined a get-together at the Institute of Metal Forming (IBF).

On the photo professor Kopp (right) and his successor professor Hirt (left).

Professor Sabahudin Ekinovic elected.

It is a pleasure to announce that our colleague professor dr. Sabahudin Ekinovic has been elected for Rector (President) of the University of Zenica, Bosnia and Herzegovina.



4. Associate Members News

Summary of the CIRP Associate Members Advisory Group Meeting

This AMAG meeting on January 27th in Paris was chaired by the past president M. Veron and moderated by J.M. Minguez. It was agreed that the Associate Members Advisory Group (AMAG) meetings will be held in Paris each year while the Associate Members (AM) meetings will be held at each General Assembly in August.

The President, professor Inasaki noted that he would like to take an initiative to increase the number of associate members, and delivered a presentation "Increase in the Membership of Associate Members". There should be a closer contact between industries and universities'. From a statistical analysis of the associate membership and the active membership it was noted that there is a good correlation between the number of active members (129 from 28 different countries) and the number of associate members. However, eight countries do not have associate members while for some others, the number of associate members is low. Prof. Inasaki proposed 'that the number of associate members should be in proportion to the number of active members'. Professor Minguez suggested asking the countries delegates to identify potential associate members. This will be done.

For the next General Assembly in Turkey several potential associate member companies will be invited by professor Kaftanoglu to make short presentations. Following professor Wertheim's suggestion, also companies from countries neighbouring Turkey will be invited, such as 'Iran, Iraq, Jordan, Serbia-Montenegro and Syria.

It was agreed that per company two contact people will be listed in the CIRP Directory, rather than just one (this will not involve payment of extra fees by the member-company).

Professor Alting reminded that CIRP has to provide 'value for money' for the AM's and stressed the importance of industrial interaction 'pointing the way of CIRP research'. As an example mr. Belluco from Renault noted the value for his company is 'knowing where the experts are'. In his experience, the interaction is strongly based on personnel relationships but according to Barry this is not possible for approximately 70% of associate members (i.e., those who can not regularly attend meetings). For such associated members it was decided to extend the CIRP directory with ea few keywords to identify the member's speciation

Professor Tichkiewitch referred to the 'VRL' (virtual research lab) activity which is concerned with creating a knowledge/competencies map of member laboratories; currently only within Europe which also is open for AM's.

Professor Inasaki, explained two ways to transfer of information to associate members. In Japan all keynote papers are distributed immediately following the General Assembly so that associate members do not have to wait until the publication of the Annals. Also a yearly seminar is held in which a recent keynote speaker presents the paper.

Professor Wertheim noted that the CIRP Newsletter was one means of informing all associate members. Professor Minguez referred to the Associate membership flyer. This flyer was found not to be up to date and has to be updated (se page 15). Professor Minguez further mentioned that there are three options for associate members to make contributions:

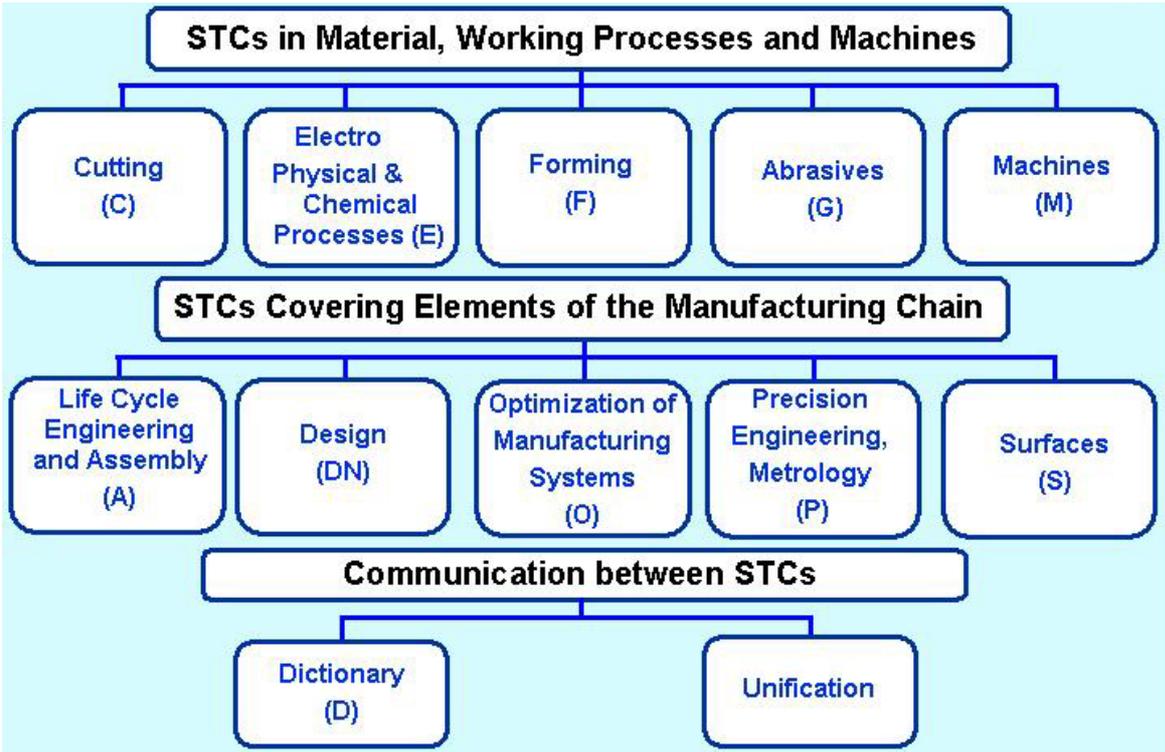
- Company presentations in the associate members meeting
- Contributions to the STC meetings
- ‘Official’ papers in the annals

Contributions from associate members could be published in Volume III of the Annals on the CIRP website.

The full minutes written by the AMAG Secretary John Barry are available on CIRPnet.

5. From the STC’s

There are two kinds of STC’s. Five STC’s covering the Processes and Machine and five covering the Manufacturing chain as shown below.



6. Meetings Seminars, conferences

2005 CIRP Design Seminar, New Trends in Engng Design

22 – 25 May 2005, Shanghai, China

The theme of this year's conference will be *New Trends in Engineering Design*, which broadly covers various research, development and application topics relate to (1) design and the nature, (2) design and the society, and (3) design and the invention. We will have keynote presentations, paper sessions, panel discussions, industrial visits, and laboratory tours participated by leading scholars and industrialists from all over the world to exchange creative ideas and plan for future directions. Conference social events will be available, and some pre- and post-conference tourist programs in China will be offered to interested participants. There are also two related meetings be planned in association with the main conference. The first one, to be held on Sunday, May 22, 2005, will explore international collaboration opportunities between the European and the Chinese research communities, with a highlight of the EU-funded *VRLKCiP project*. The second one, to be held on Thursday, May 26, 2005, is a special meeting on *Engineering as Collaborative Negotiation (ECN)*, organized by the CIRP ECN Working Group. This meeting will include invitation presentations, tutorials, technical papers, and panel discussions related to the new ECN paradigm in engineering design

Chairman: Prof. M. Shpitalni, : cirp2005sh@sjtu.edu.cn ,
www.cirp2005sh.sjtu.edu.cn

Third International Total Quality Management Working Conference Advanced and Intelligent Approaches

23 – 26 May 2005, Belgrade, Serbia & Montenegro

The objective of the Third Conference is to provide an international forum for the exchange of knowledge, experience, research results and information about various aspects of the state-of-the-art and the future development of total quality management. The Conference covers philosophical, scientific and practical concepts concerning research, development and application of TQM-based advanced approaches. Contact: Prof. V. D. Majstorović e-mail: majnem@EUnet.yu
www.jusk.org.yu or www.mas.bg.ac.yu

Innovations in Manufacturing Engineering Education

SME/CIRP International Conference

22-25 June 2005, Cal Poly State University, California, USA



The intent of the conference is to strengthen Manufacturing Engineering Education and help shape its future by fostering communication among a global set of participants. The discipline of Manufacturing Engineering is evolving rapidly to meet the needs of manufacturing industries. It is important for the development of the discipline to define a common basis for communication and to strengthen networks among educators. This the only way we can fully realize the benefits of the diversity in the discipline that exist nationally and internationally. The conference is an opportunity for manufacturing educators to address issues related to global shifts in manufacturing, shifts in jobs, pollution, international trade, and international manufacturing. The conference continues a tradition of those that were previously sponsored by SME and CIRP on Manufacturing Engineering Education. This conference also aims to bring together the segments of organizations such as ASEE and ASME with interests in manufacturing engineering education.

Contact: Prof. Christopher A. Brown, <http://www.wpi.edu/+mfe/SurfMet>
Conference website: <http://www.ime.calpoly.edu/mfeeconference/>

VII AITeM International Conference Enhancing the Science of Manufacturing

7-9 September 2005, Lecce, Italy.

The VII AITeM Conference aims at presenting up-to-date information on the latest research and industrial developments in the field of manufacturing, providing an international reference for an exchange of experiences and ideas, and promoting cooperation among different institutions. The meeting provides a unique opportunity for participants to update their knowledge in manufacturing industry. The program includes presentation sessions of the major experts and papers related to industrial production: Machining, Foundry, Sheet&Bulk Metal Forming, Advanced and Non-Conventional Machining and Machine Tools, Joining, Polymers Processing, Assembly, Disassembly, Life Cycle Engineering, Computer Aided Manufacturing, Design and Process Planning, Rapid Manufacturing, Production Systems, Production Planning, Scheduling and Control, Metrology, Tolerancing, Quality, Manufacturing Education and Human Factors.

Contact: Prof. Marco Santochi, Email: aitem@unicas.it Web site: www.aitem.org

5th International Conference "THE" Coatings in Manufacturing Engineering

5-7 October 2005, Kassandra Chalkidiki, Greece,

Topics: Thin protective coatings in manufacturing processes, Plasma sprayed coating applications, Diamond coatings and related materials in manufacturing, Tribological coatings, Coatings on machine elements and machine components, Substrate and coating surface treatments, Coating properties characterization, Coating deposition processes, Coatings applications in electronics, Future trends in metallurgical coatings and thin films in the field of manufacturing and production

Contact: Prof. K. D. Bouzakis, the-coatings@auth.gr

2nd ICMEN Int. Conference on Manufacturing Engineering

5-7 October 2005, Kassandra Chalkidiki, Greece

Topics: Cutting, Grinding, Gear manufacturing, Lasers and electro discharge machining, Forming, Concurrent engineering and rapid prototyping, Casting, die casting and thixo-forming, Surfaces and materials characterization, Robots in manufacturing environments, Machines and devices, Bearings and other machine elements, Tribology and lubricants, CAD-CAM systems, virtual manufacturing, Manufacturing systems, Assembly, Logistics in manufacturing, Bioengineering focused on manufacturing, structures simulation and, properties characterization.

Contact : Prof. K. D. Bouzakis: icmen-2005@auth.gr

8th ICTP Int. Conference on Technology of Plasticity

9-13 October 2005, Verona, Italy

The 8th International Conference on Technology of Plasticity, ICTP 2005, which is going to take place October 9 - 13 2005 in Verona, Italy, is the follow up of a series of triennial successful conferences that offer the most comprehensive worldwide opportunity for comparison and exchange of experience and knowledge between professionals from industry and leading University scientists in all areas of metal forming technology and systems.

Chairman: R. Kopp, Germany - Secretary: J. Yanagimoto, Japan

3rd International Symposium on Nanomanufacturing

3-5 November 2005, Cyprus

Integrated Design and Production Engineering Conference
November 2005 Casablanca, Marocco

Parallel Kinematics Seminar
25-26 April 2006, Chemnitz, Germany

**6th IDMME International Conference on Integrated Design
and Manufacturing in Mechanical Engineering**
17–19 May 2006, Grenoble, France

Topics: The design/manufacturing interface, Integrated design of manufacturing processes, Life cycle design and manufacturing approaches, Agility in design and manufacture, Knowledge in engineering , Management in production system.



Contact Serge.Tichkiewitch@inpg.fr <http://idmme06.inpg.fr>

11th ICPE – Int. Conference on Precision Engineering
6th International Workshop on Emergent Synthesis
16-19 August 2006, Tokyo, Japan

DET'06 - Digital Enterprise Technology
11-13 September 2006, Setubal, Portugal

CAPE - Computer Aided Production Engineering
?? ?? 2006, Glasgow, UK

14th International CIRP Life Cycle Engineering Seminar
?? 2007, Tokyo, Japan

ISEM 15
May 2007, place to be confirmed in August 2006

7. From the secretariat

Annals online

The CIRP annals are available on the web from 1991 to present, and be soon back to year 1980. All the files have just been scanned by the staff of Prof. Serge Tichkiewitch now. The secretariat is currently uploading all the files. Just try it using the new personal password you recently received.



This information is also available to others, e.g. some department in your Institute or Company. They can also access to the CIRP Annals on the Website but not for free like CIRP members, they should subscribe to a yearly electronic fee of € 200 giving them access to the Annals “online” from one or two computers. This access can be extended to more computers – in that case they have to contact the Secretariat.

The Secretariat has already received subscriptions and the process, working through a Username and Password, works quite well. Information how to subscribe is given on the CIRP Website <http://www.cirp.net/> under the button “Publications.”

Dictionaries

Dictionaries are very important for our Institute because it is of high significance for CIRP to have them sold, if we want to go on publishing the following. The volumes are very useful for daily use. All information is available on the Website on page (<http://www.cirp.net/publications/publications.html>)

New is the edition of tri-lingual Dictionaries (English-French-German). Already available are:

- Metal Forming, Vol. I - 1 (1997)
- Metal Forming, Vol. I - 2 (2001)
- Material Removal, Vol. II (2004)
- Manufacturing Systems, Vol. III (2004)



Dictionaries can be ordered directly online on the publishers Springer-Verlag's website. There is also available an English-German-French-Chinese version.

Contact the CIRP Office. The previous multilingual CIRP Dictionaries (published from 1962 to 1984) are still available at the CIRP office:

English-French-German version:

(Vol. 1 : Forging And Drop Forging / *Sold out*)

(Vol. 2 : Grinding - Surface Roughness / *Sold out*)

(Vol. 3 : Sheet Metal Forming / *Sold out*)

(Vol. 4 : Fundamental Terms Of Cutting / *Sold out*)

Vol. 5 : Cold Extrusion And Upsetting

Vol. 6 : Planning, Slotting, Broaching, Turning

Vol. 7 : Drilling, Countersinking/Counterboring, Reaming, Thread Production

Vol. 8 : Milling, Sawing, Gear Manufacturing

Vol. 9 : Electrochemical, Electrodischarge, Electronbeam, Photonen Beam (Laser) And Chemical Machining

Vol.1 to Vol.9 is also available in English-German-French-Chinese version.

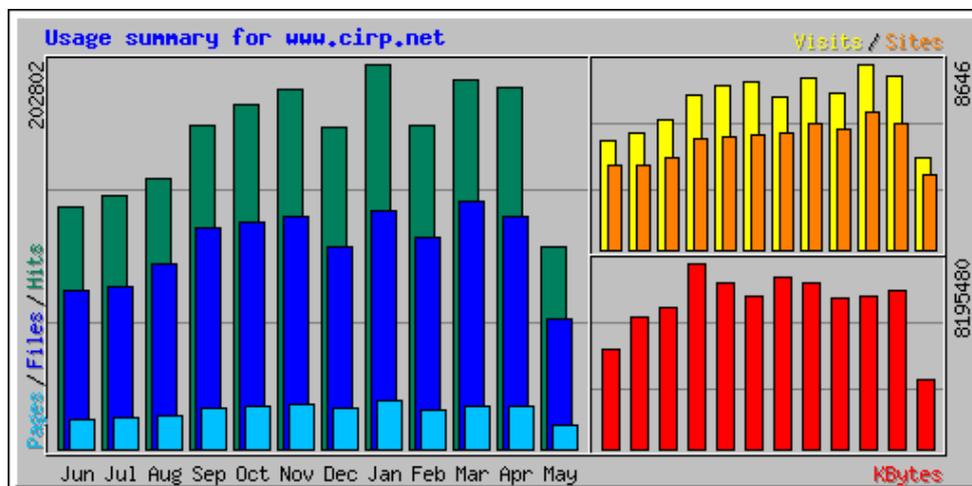
Vol. 1 is also available in German-Spanish-Italian-Portuguese version and in a Danish-Norwegian-Swedish-Finish version.

New on CIRPnet

New matters on the Home page of the Website can now be easily accessed by simple clicking on the logo "NEW" For the moment; "NEW" is linked to the new Online subscription and the two new Dictionaries. It will be updated every time that new information is put on the web.

Web usage

The usage of the web until mid of May 2005 is shown below. The month January seems with 202 802 hits to be the busiest month.



8. Miscellaneous

Abrasive news

The Abrasive Engineering Website (www.abrasiveengineering.com) has been put a link to our CIRP website promoting CIRP publications.

Faculty position, manufacturing systems at Massachusetts Institute of Technology, USA.

The Department of Mechanical Engineering and the Engineering Systems Division offers an assistant professor position in the general area of manufacturing systems beginning with the 2005-2006 academic year.

The ideal candidate will have completed their Ph.D. prior to fall 2005, will show evidence of their ability to pursue a research program, and will have a strong commitment to graduate and undergraduate teaching.

Full information available by professor Nam P. Suh

See also <http://web.mit.edu> <http://www-me.mit.edu/> <http://esd.mit.edu>

Faculty position at the University of Wisconsin-Madison, USA

The Department of Industrial Engineering at the University of Wisconsin-Madison invites applicants for faculty position beginning August 2005 in one of the following areas: decision sciences/operations research, health systems engineering, human factors and ergonomics, or manufacturing and productions systems. A Ph.D. in Industrial Engineering or related to the areas of interest listed above is required.

Full information available by professor Darek Ceglarek darek@engr.wisc.edu
http://www.engr.wisc.edu/ie/faculty/ceglarek_darek.html