



**The International Academy for Production Engineering**

# **NEWSLETTER**

**N° 41 – October 2010**

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# From the President

It is a great privilege to be your president for this year. CIRP has been developing well under the leadership of my (former) board colleagues Fritz Klocke, Bob Hocken, and Gerry Byrne. I am convinced that my successors Andrew Nee and Marco Santochi will continue the work with great enthusiasm. CIRP is an international academy of highly esteemed scientists but also a circle of friends. The circle is slowly growing in terms of numbers. To make it possible to organize our General Assemblies and Paris meetings, the numbers should be kept under control. Nevertheless the membership has accepted the proposal to initiate the category of Research Affiliates; Young researchers who are finishing their PhD or have just finished it. The status of Research Affiliate gives them the opportunity to participate in the world of the academy and to find out if they want to



further pursue an academic career. Those who will find a job in industry might be very valuable ambassadors for CIRP. New faces are showing up at our meetings. This is beneficial for the continuity and visibility of our organization. Most of the Research Affiliates are very active. They also organize their own meetings. To become an associate member the regular procedure has to be followed. So there is no bypass. Research Affiliates get the opportunity to show their capabilities in the scientific arena. Like Associated Members there will not be a renewal if activity is lacking during the nomination period of three years. The total number of Research Affiliates is limited and the number participating in our meetings has not been causing organizational problems during the past three years.

Another valuable instrument to bring new items into CIRP is the track structure. The tracks are the platforms for interdisciplinary issues. Dealing with domestic affairs in the track sessions reduces the time spent on administrative overhead during the STC meetings. The Tracks are the typical breeding places for collaborative working groups that work for a limited time on new cross STC topics. The overall opinion of the membership about the usefulness of the Tracks was quite positive and it has been decided that they should be continued as an experiment for the next three years. During the Paris meeting a new

governance structure for the Tracks has to be initiated. The present coordinators were appointed by the board for the duration of the experiment. Now it has become more appropriate to implement the democratic structure that we also use in the STC's: Tracks should have a chairperson, a vice chairperson and a secretary. The chairperson should have ample experience. Therefore the council has proposed that that person should have chaired an STC before. The election of the Track officers will be the privilege of the constituting STC chairpersons. The result will be tabled at the liaison committee meeting and approved by the council.

The CIRP publishing committee has been transformed into the CIRP Communications Committee. This committee includes the former STC Dictionary and covers all CIRP publishing and communication issues. CIRP publishing is developing very well: The Annals now belong to the best cited journals in the field and their impact factor is rising steadily. The number of downloads of our papers is above 300.000. In particular the keynote papers are very popular. The CIRP Journal on Manufacturing Science and Technology will be included in the ISI citation index soon. Elsevier is providing services to the organizers of CIRP (sponsored) conferences for on line publishing of conference proceedings through Procedia Engineering that is now included in the ISI conference proceedings index. CIRP has assigned a contract with Springer on the publication of the Encyclopedia of Production Engineering (CIRPedia) an electronic extension to the CIRP dictionaries. A new type of CIRP publication is the white paper, an authoritative report or guide that often addresses problems and how to solve them. White papers are used to educate readers and to help people make decisions. They are often used in politics and business. Fritz Klocke and Hoda ElMaraghy have written a document with objectives and guidelines for CIRP white papers.

In my presidential year the board will continue to extend the contacts with other international and national academies and societies in our field. Together with the white papers this creates opportunities to give CIRP more visibility and impact.

Some upcoming economies are underrepresented among the membership of CIRP. Our Vice President Andrew Nee has taken the responsibility to address this matter, in particular for the countries in Asia. On the other hand, some countries have long waiting lists. The board will discuss how to address these matters to create a sustainable future for our academy. As mentioned before, we want the circle of friends to develop in a controlled way, allowing the addition of new topics to our research agenda while keeping the organization manageable, in particular for the organizers of future General Assemblies.

I am looking forward meeting you all at the Paris meetings coming up in January 2011 (don't forget to book your hotels well in advance).

With friendly regards  
Fred van Houten  
President of CIRP

# The 2010 General Pierre Nicolau Award

The 2010 General Pierre Nicolau Award has been presented by professor Byrne (left) to Sir David McMurtry, Chairman and Chief Executive, Renishaw plc (right).

David Mc Murthy was born and grew up in Ireland and in 1958 he joined Bristol Aero Engines (now Rolls-Royce) as a craft apprentice specializing in machining and fitting. As a student apprentice he studied for a Higher National Diploma at the Ashley Down College of Advanced Technology in Bristol; this was prior to it becoming the University of Bath.

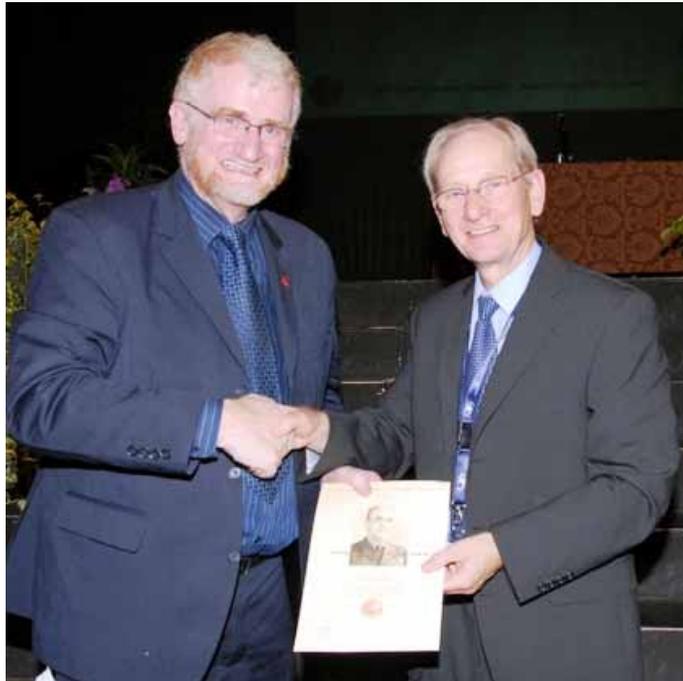
In 1971 as part of the new Rolls-Royce, he was promoted to assistant chief engineer (special design problems) and in 1974 he became deputy chief designer for the RB401 and assistant chief engineer for all engine design. It was during this period that he was asked to solve the problem of making and validating fuel pipes. The answer was to measure the fuel pipes in free space and David McMurtry invented the first touch trigger probe that was patented by Rolls-Royce. The device worked so well that several other companies wanted it. A new industry was born. The “touch-trigger-probe” had taken off, and the only way to meet demand was to set up a new company “Renishaw”.

David MC Murtry has made very many very significant contributions to the field of metrology, a subject which was of direct and great interest to General Nicolau. David McMurtry is named as the inventor or co-inventor on some 47 Rolls Royce patents and on over 150 of Renishaw inventions. His engineering and business achievements have been widely acclaimed internationally. In 1994 he was awarded a CBE “for services to Science and Technology” and he was appointed a Royal Designer for Industry (RDI) in 1989.

In the 2001 New Years Honour List he was appointed a Knight Bachelor “for services to Design and Innovation”. He was a visiting Professor of Huddersfield University and has been awarded an honorary Doctorates of Engineering from the University of Birmingham, Heriot-Watt University, Bristol University and the University of Bath.

He is a Chartered Engineer, a Fellow of the Institution of Mechanical Engineers, a Fellow of the American Society of Manufacturing Engineers [SME] and a Fellow of the Royal Academy of Engineering. He also sits on the US Standards Committee for Co-ordinate Measuring Machines and was for ten years a member of the UK Patents Office Steering Board.

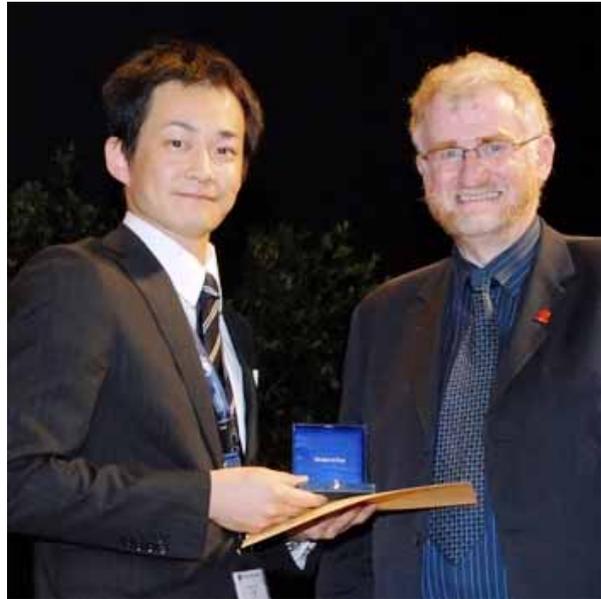
Sir David is a highly acclaimed engineer, designer and innovator at the helm of one of the UK’s leading companies, and is an inspirational role model for young engineers. He is a Corporate Member of CIRP, has been for 15 years and many CIRP colleagues are actively involved in research projects with his company.



## The 2010 F.W. Taylor medal

The F.W. Taylor Medal 2010 has been awarded to Dr. Masakazu Soshi. Dr. Soshi is an Engineer at Mori Seiki Co. Ltd., Development and Manufacturing HQ, Japan.

The award is based on his technical paper, presented at the 2009 General Assembly in Boston in STC M entitled “A study on the development of a multi-purpose spindle system for quality productive machining.” The paper is based substantially on Dr. Soshi’s work as part of his doctoral thesis undertaken at the University of California at Davis.



The topic area, multi-purpose spindle systems, is of increasing importance with the increased emphasis on accommodating variable load and torque over a wide range of spindle speeds for so called “multi-tasking” machines. These machines are allowing rapid development of comprehensive machining processes as part of a single machine tool, offering tremendous improvements in flexibility and efficiency.

The paper presented a design for a new class of spindles with dual direct drive motors (in line). This allows the spindle size to remain the same while offering a wide range of operating conditions – usually otherwise requiring switching spindles machines.

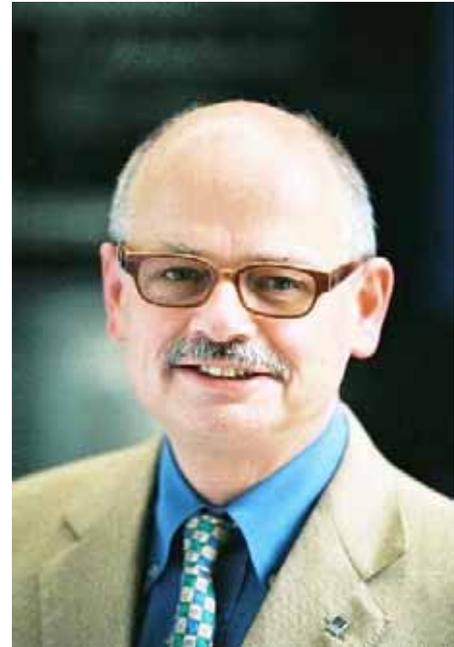
The paper was exceptionally effective in that it covered the design theory and practical implications and development of this new spindle concept. The experimental evaluation of machining performance reported in the paper showed the success of Dr. Soshi’s design. In that sense, it showed very well both the sophistication of the design and execution but also the practical performance of this device. To get to practical performance of a sophisticated system is rare, in fact exceptional for the stage at which Dr. Soshi is at in his career.

# News about Members

## High honor for Professor Manfred Geiger

The Gottfried Wilhelm Leibniz University Hannover bestowed the Honor Medal to Prof. Dr.-Ing. Dr.-Ing. E.H. mult. Dr. h.c. mult. Manfred Geiger. This eminent and exceptional honour is conferred to personalities which have rendered outstanding services to the university. Manfred Geiger chaired the Board of Governors for 6 years since the foundation of this body by the Lower Saxony Constitution.

Prof Geiger is one of the leading scientists of production science working in metal forming and laser technology. He is emeritus of the University of Erlangen and serves as Member of the Science Council of the Federal Republic of Germany. He is founder and director of the Bavarian Laser Centre in Erlangen, member of the German Academy of Science and Engineering. He was granted numerous academic honours as honorary doctorates in Budapest, Chemnitz, Dortmund and other esteemed academic institutions.



## Professor Walter Eversheim received Federal Cross of Merit

Professor Eversheim has received the high distinction Order of Merit of the Federal Republic of Germany (Bundesverdienstkreuz 1. Klasse) This Officer's Cross was presented by the Secretary of State Andreas Pinkwart.

Professor Eversheim was from 1973 until 2002 professor in production and technology management at the WLZ-Aachen. From 1980 until 2002 he chaired the Fraunhofer Institute for Production Technology (IPT). Since 1990 he was also Director of the „Forschungsinstituts für Rationalisierung“ (FIR) at the RWTH. In 2008 he became member of the German Academy of Science and Engineering ([acatech](#)) Professor Eversheim is Honorary professor at the Universities of Trondheim, Norway, Tianjin, China' St. Gallen, Switzerland and Huazhong, China



Professor Eversheim was also 12 years the spokesman of the Board of Directors of the Society for the Conferring of the International Charlemagne Prize of Aachen. Therefore the city of Aachen has decided (20 January 2010) to distinguish him with the golden ring of honour of the city of Aachen.

## Professor Gideon Levy receives FAME Award

Professor Levy has received the International Freeform and Additive Manufacturing Excellence (FAME) Award at the 21st Annual International Solid Freeform Fabrication Symposium in Austin, Texas at August 9-11, 2010

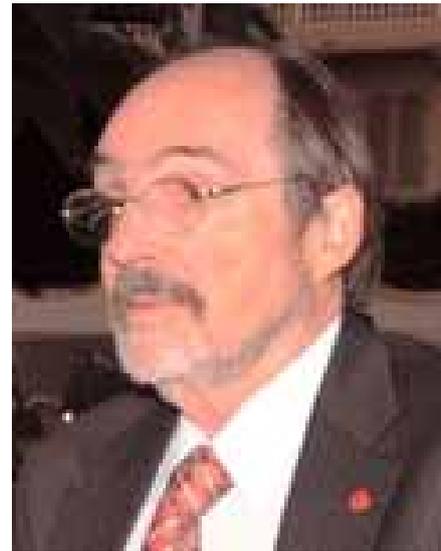
The FAME Award is given annually to recognize an outstanding researcher in the field of freeform/additive fabrication and consists of a certificate and a free formed trophy created by the artist Bathsheba Grossman.

Since the invention of SLS (Selective Laser Sintering) in the Laboratory for Freeform Fabrication (1986) the University of Texas at Austin is a leading AM research center.



The considerations of giving the FAME Award include: research excellence, sustained activity in the field over an extended period of time, significant industrial and/or social impact of research, pioneering a new area of freeform fabrication, bringing freeform fabrication to a wider audience, acting as a role model for others, particularly junior researchers in freeform fabrication, and respect among peers.

As part of the ceremony professor Levy delivered a keynote talk at the symposium.



## Professor Johan Meijer becomes Knight of Lasertechnology

Every 3 years a Knight of laser Technology has been elected during the LANE conference in Erlangen. Johan Meijer has received the 2010 Award and a laser sword because of his scientific contribution to the applied lasertechnology.

In the early eighties he has started his research in this field. In those pioneering years he has established a close collaboration with industry concentrating on problems associated with the introduction of this new technology in industry and looking for solutions, combining lasers, optics, robots and advanced control systems.

He was described as one of the few prominent founders of the laser technology in the Netherlands, a very good scientist and a successful liaison between science and industrial practice. He was involved in the foundation of several laser companies in laser cutting laser surface treatment and ultrashort laser applications.

Formerly selected Laser Knights are: prof Kruth, prof. Jueptner, prof Schuöcker and prof. Tönshoff who delivered the laudation speech.



## **Professor László Monostori corresponding member of the Hungarian Academy of Sciences**

Professor Monostori was elected by 180<sup>th</sup> General Assembly of the Hungarian Academy of Sciences, on May 3, 2010.

According to the official laudation, the main research fields of Professor Monostori, Deputy Director Research of the Computer and Automation Research Institute (SZTAKI) of the Hungarian Academy of Sciences, and full professor at the Faculty of Mechanical Engineering, Budapest University of Technology and Economics, are manufacturing science, intelligent production systems, production management and informatics. In course of his school-founding research activity he has developed new solutions for managing the complexity, changes and disturbances characteristic of the different stages of production hierarchy, for elaborating real time, co-operative manufacturing structures.



The Hungarian Academy of Sciences (<http://www.mta.hu>) established in 1825 is a scholarly public body founded on the principle of self-government, whose main task is the study of science, the publicizing of scientific achievements, and the aid and promotion of research. The number of Hungarian academicians under the age of 70 years cannot exceed 200.

In 2010, Professor Monostori was also awarded the civil decoration of the *Knight's Cross Order of Merit of the Republic of Hungary* and by the *Professor Honoris Causae Facultatis Mechanicae Universitatis Miskolcensis*.

### **Fruitful cooperation of CIRP colleagues: Opening of the *Fraunhofer Project Center for Production Management and Informatics* in Budapest**

After several years of preparatory measures, the responsible persons of the *Fraunhofer Institute for Manufacturing Engineering and Automation (IPA)*, Stuttgart, the *Computer and Automation Research Institute, Hungarian Academy of Sciences (SZTAKI)*, Budapest, and the *Fraunhofer Austria Division for Production and Logistics Management (FhA-PL)* have established the *Fraunhofer Project Center for Production Management and Informatics at SZTAKI*.

## Main goals and offers of the Fraunhofer Project Center

Taking the challenges we face today and the scopes of competences of the three cooperating institutes in account, the natural areas of activities in the Fraunhofer Project Center (<http://www.fraunhofer.hu/en/>) relate to *Digital, real-time production enterprises and networks*. The Project Center offers its applied R&D and consultancy capacities, and expertise in developing and installing customer-specific, tailor-made solutions in the fields of

- production planning and optimization,
- design and management of cooperative production networks,
- order management in the production and service industries,
- real-time, responsive production scheduling and control,
- industry-proof application of novel information and communication technologies.

Related basic research activities are conducted in parallel at the mother organisations and university departments concerned.

## Win-win situation through cooperation

The partners can show up partly overlapping and partly complementary R&D portfolios. The Project Center directed by *Professor László Monostori*, is legally embedded in and operated by the host institute, SZTAKI, which operates the Project Center on behalf of the Fraunhofer Gesellschaft (FhG). The respective rights and obligations of FhG and



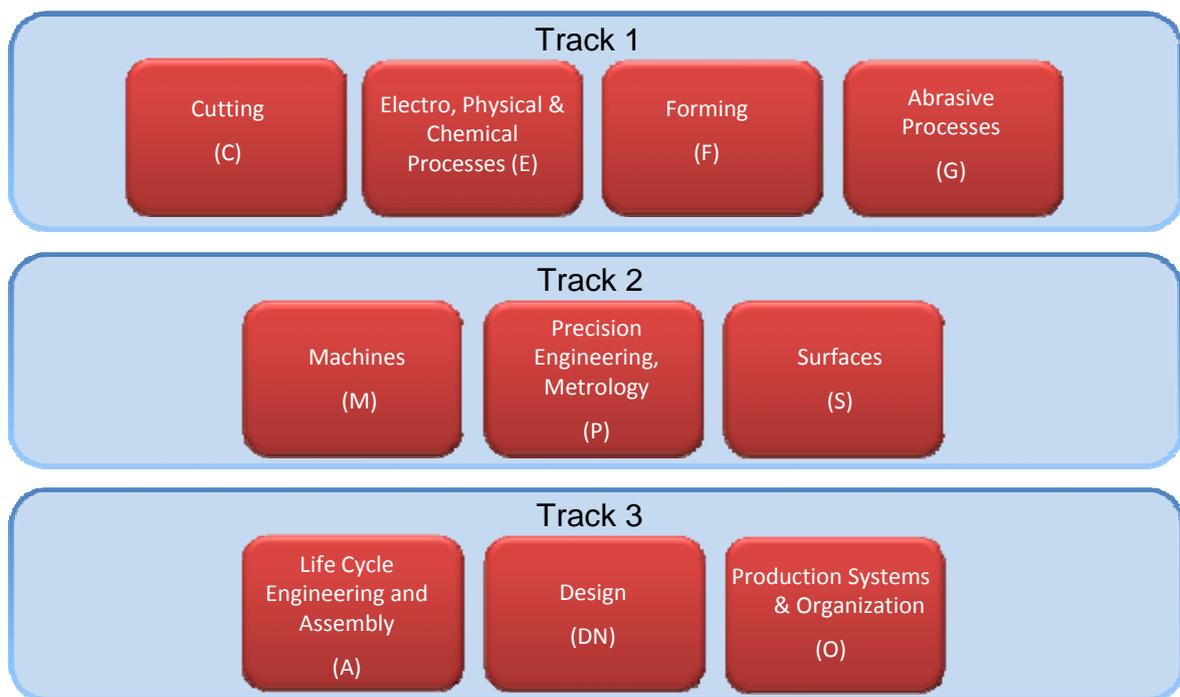
SZTAKI are laid down in a cooperation contract signed by *Professor Hans-Jörg Bullinger*, President of FhG; *Professor József Pálinkás*, President of the Hungarian Academy of Sciences; *Professor Engelbert Westkämper*, Director of IPA; *Professor Wilfried Sihn*, Director of FhA; and *Dr. Péter Inzelt*, Director of SZTAKI, on May 18, 2010 (see picture). The German and Hungarian authorities support the Project Center on the principle of matching funds. According to the business plan, in 5 years the Project Center's financing structure will be similar to the Fraunhofer model.

From the Hungarian side, other CIRP colleagues, namely *Professor József Váncza*, and *Dr. Botond Kádár*, will take part in the endeavour, as Scientific Advisor and Project Center Manager, respectively.

# Tracks and STC structure

The heart of the CIRP organization is formed by the Scientific Technical committees (STC's) which are grouped in three tracks. Topics of common interest like cooperative work, conferences and combined organizational and administrative issues are handled within the tracks. The track structure has been introduced in 2008 and will be evaluated within 3 years.

## Tracks & STC's





# New Members elected at the 2010 GA in Pisa

## Fellows

Prof. E. Abele (Germany)  
Prof. T. Aoyama (Japan)  
Prof. A. Bruzzone (Italy)  
Prof. E. Budak (Turkey)  
Prof. F.Z. Fang (P.R. China)  
Prof. E. Govekar (Slovenia)  
Prof. P. Groche (Germany)  
Prof. M. Hauschild (Denmark)  
Prof. T.K. Lien (Norway)  
Dr. M. Mori (Japan)  
Prof. M. Pietrzyk (Poland)  
Prof. B. Zhang (P.R. China)

## Associate Members

Prof. R. Gao (USA)  
Prof. J-M. Linares (France)  
Prof. M. Merklein (Germany)  
Prof. T. Özel (Turkey)  
Prof. S. Park (Canada)  
Dr. N. Sugita (Japan)  
Dr. H. Tanaka (Japan)  
Dr. B. Kadar (Hungary)  
Dr. N. Papakostas (Greece)  
Dr. K. Yamamura (Japan)

## Fellows (Emeritus)

Prof. P. Bourdet (France)  
Prof. Y. Furukawa (Japan)  
Prof. M. Geiger (Germany)  
Prof. U. Heisel (Germany)  
Prof. E. Kuljanic (Croatia)  
Prof. E. Rivin (Canada)  
Prof. T. Moriwaki (Japan)  
Prof. N.P. Suh (USA)

## Research Affiliates

Mr. E. Weingärtner, Switzerland  
Dr. E. Ferraris, Belgium  
Dr. S. Filiz, Turkey  
Dr. Y. Liu, Hong Kong  
Mr. K. Lübke, Germany  
Mrs. M.K. Thompson, USA  
Dr. E. Ozlu, Turkey  
Dr. R. Pabst, Germany  
Dr. M. Soshi, Japan  
Dr. C. Yuan, China  
Dr. M. Colledani (Italy)  
Dr. K. Harada (Japan)  
Dr. J. Köhler (Germany)  
Dr. M.C. Kong (UK)  
Dr. P. Mou (China)  
Dr. A. Nassehi (UK)  
Dr. A. Valente (Italy)  
Dr. P. Vichare (UK)

## Corporate Members

Stryker Instruments (Ireland)	Mr. D. Tallon
CEA - French Atomic Commission (France)	Mrs. S. Bissey-Breton
General Dynamics (USA)	Mr. D. Bartles
IWT (Germany)	Mr. C. Heinzl
TBZ-PARIV (Germany)	Dr. J. Leopold
Liban, Inc. (USA)	Mr. N. Nasr
Magna Advanced Technologies (Canada)	Mr. S. Tomczak
Samsung Electronics (Korea)	Dr. D. Jang
Boeing (USA)	Mr. J. Anelle
Catim (Portugal)	Mr. H. Vasconcelos
Sandvik Tooling (Sweden)	Mr. Sundström
Swerea Kimab (Sweden)	Mr. T. Björk

# News from CIRPedia

In the past 2 years officers and members of the former STC-D, now called « Terminology Committee », discussed with Springer the idea of creating an electronic web version of the dictionaries, referred to as E-dictionaries, where such things as animations, equations and cross links to other relevant terms could be included to further enhance the understanding of the definition of each term. At the same time a new Assembly dictionary was being developed by STC-D using a wiki based platform which development was supervised by the STC-D vice-chairmen, Prof. Gunther Reinhart. As a natural extension, in the following months the idea of expanding the definitions into essays was next discussed. At that time both parties started to refer to this concept as an encyclopedia, and the original term CIRPedia was first proposed by CIRP colleague prof. Jack Jeswiet at its general assembly in Manchester in August 2008.

In January 2009, just before the CIRP January meeting in Paris, the Chairmen of STC-D, prof. Luc Laperrière, had a meeting with Springer staff at their office in Heidelberg to start to discuss the technical details of how CIRPedia could be developed and implemented as a wiki-type web site. In the following days the idea of creating a pilot project involving fifteen essays, five in each section of Forming, Cutting and Assembly, was initiated. During spring and summer of 2009, the CIRPedia platform was developed and improved by Springer staff according to the directives and comments of the CIRP STC-D Chairmen. After the platform was judged to be at an acceptable level of functionality, Section Editors and Authors were invited to use the platform to submit the fifteen pilot essays. A successful demo took place at the CIRP general assembly in Boston in August 2009 in each of the three Tracks sessions.

Although the platform was functional, a contract acceptable by both parties (Springer and CIRP) still had to be developed and signed. After a year of negotiations the contract was finally signed at the CIRP general assembly in Pisa.



Prof. Laperrière, prof. Dumur, mr. Lehnert, prof. Byrne and prof. van Houten

*“The encyclopedia will provide the best of CIRP’s knowledge – results of discussions within working groups and committees - opened to the scientific public. This publication will be updated frequently, citable and available for subscribers worldwide online - or in print. The content will be protected according to UCC (Universal Copyright Convention). The platform used for online publication will be based on SpringerLink, accessible by thousands of users worldwide with unlimited availability. Protection of the intellectual property of the work while opening the data to users will be solved according to the contract.*

*Exciting and new is the editorial platform, CIRPedia, developed by the former STC-D and Springer-Verlag based on Springer’s toolbox. CIRPedia provides CIRP participants with access to the content prior to publication, a platform for discussions and a protected comprehensive library of essays on the most recent state-of-art in relevant fields of research. Access to CIRPedia will be available only to a limited number of participants designated by CIRP.*

*This unique solution is not a wiki allowing anyone to change anything. The intellectual property belongs to the authors. CIRPedia allows real-time open reviews and discussions within the CIRP community. This platform will also allow real-time discussions within sections, working groups and committees to be pursued and documented online. It will provide a workbench for an ongoing evaluation of content between the members of a section and beyond, filling the gaps between assemblies and conferences. The content will be visible prior to publication via CIRPedia within the groups designated by CIRP only. Thus, using CIRPedia, CIRP and Springer will be leading the development of reviewed knowledge-generation and documentation.”*

*-Thomas Lehnert, Senior Editor Engineering, Springer-Verlag*

The structure adopted for CIRPedia consists of two Editors in Chief and ten Section Editors, one for each STC. Editors in Chief are the Chair and vice-chair of the Terminology Committee (professors G. Reinhart and L. Laperrière). The CIRPedia already contains four sections consisting of all terms, definitions and translations of all four CIRP dictionaries (Assembly, Cutting, Forming, Manufacturing Systems). Editors in Chief and Section Editors will be responsible to provide a list of terms and the authors of their associated essays. Editors in Chief, Section Editors and Authors will log into CIRPedia with privileges corresponding to their status. Once CIRPedia contains a sufficient number of essays, all other members of the CIRP community will also be able to login, see the work in progress, and provide useful comments to the authors.

Professor Luc Laperrière

# Photos from Pisa

A lot of photos have been shot during the 2010 General Assembly. The organisers have put them on the (unofficial) website <http://picasaweb.google.com/105399259077816087272> From there you can watch them as a slide show and download your own pictures.

**CIRP 2010 Pisa 's Public Gallery** Albums (9)

Sort by: [Album date](#) | [Upload date](#)

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**August 28**  
Aug 28, 2010  
photos: 326



**August 27**  
**Accompanying persons - Firenze**  
Aug 27, 2010  
photos: 65



**August 25**  
Aug 25, 2010  
photos: 506



**August 25**  
**Accompanying persons**  
Aug 25, 2010  
photos: 97



**August 24**  
Aug 24, 2010  
photos: 153



**August 23**  
Aug 23, 2010  
photos: 271



**August 23-24**  
**Accompanying persons**  
Aug 22, 2010



**August 22**  
Aug 22, 2010  
photos: 257

# The impact of our Annals

The ISI Impact factor of our annals is still going up from 0.0779 in 2007 to 1.603 in 2009. Since 2007 also the Eigenfactor Score and Article Influence are calculated.

## CIRP Annals

JCR Data  2007						Eigenfactor™ Metrics 	
Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor™ Score	Article Influence™ Score
2690	<b>0.779</b>	0.954	0.036	138	>10.0	0.00445	0.283

JCR Data  2008						Eigenfactor™ Metrics 	
Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor™ Score	Article Influence™ Score
3771	<b>1.123</b>	1.514	0.094	149	>10.0	0.00474	0.307

JCR Data  2009						Eigenfactor™ Metrics 	
Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor™ Score	Article Influence™ Score
4183	<b>1.603</b>	1.725	0.074	136	>10.0	0.00652	0.435

The **Eigenfactor Score** calculation is based on the number of times articles from the journal published in the past five years have been cited in the JCR year, but it also considers which journals have contributed these citations so that highly cited journals will influence the network more than lesser cited journals. References from one article in a journal to another article from the same journal are removed, so that Eigenfactor Scores are not influenced by journal self-citation.

The **Article Influence Score** determines the average influence of a journal's articles over the first five years after publication. It is calculated by dividing a journal's *Eigenfactor Score* by the number of articles in the journal, normalized as a fraction of all articles in all publications. This measure is roughly analogous to the 5-Year Journal Impact Factor in that it is a ratio of a journal's citation influence to the size of the journal's article contribution over a period of five years.

The mean Article Influence Score is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence. A score less than 1.00 indicates that each article in the journal has below-average influence. As shown in the data this number is also going up by more citations in other journals.

It is shown that the Article Influence Score of our Annals also moves in the good direction

**Table:** The top cited articles published in 2007, 2008 and 2009 (excluding self-citations by the authors)

<b>Title</b>	<b>Authors</b>	<b>Vol.</b>	<b>total cites</b>	<b>STC</b>
Consolidation phenomena in laser and powder-bed based layered manufacturing	Kruth J.-P., Levy G., Klocke F., Childs T.H.C.	56/2	32	E
Changeable Manufacturing - Classification, Design and Operation	Wiendahl H.-P., ElMaraghy H.A., Nyhuis P., Zah M.F., Wiendahl H.-H., Duffie N., Brieke M.	56/2	28	O
Thermal Analysis of Grinding	Malkin S., Guo C.	56/2	18	G
On The Measurement of Temperature in Material Removal Processes	Davies M.A., Ueda T., M'Saoubi R., Mullany B., Cooke A.L.	56/2	14	C
The Design and Manufacture of Biomedical Surfaces	Ramsden J.J., Allen D.M., Stephenson D.J., Alcock J.R., Peggs G.N., Fuller G., Goch G.	56/2	13	S
A new method for simulation of machining performance by integrating finite element and multi-body simulation for machine tools	Zaeh M., Siedl D.	56/1	12	M
Biocompatible magnesium alloys as absorbable implant materials adjusted surface and subsurface properties by machining processes	Denkena B., Lucas A.	56/1	12	C
An Emergent Synthesis Approach to Simultaneous Process Planning and Scheduling	Ueda K., Fujii N., Inoue R.	56/1	12	O
Knowledge management in process planning	Denkena B., Shpitalni M., Kowalski P., Molcho G., Zipori Y.	56/1	11	Dn

## 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.

## Important dates:

### January meetings

26-28 January 2011, Paris

25-27 January 2012, Paris

### General Assembly's

21-27 August 2011, Budapest, Hungary

19-25 August 2012, Hong Kong, China

### Deadlines:

- 3<sup>rd</sup> November: submission online on EES of an Abstract for the CIRP Annals;
- 30 November: deadline for proposing a candidate for the General Nicolau Award;
- 1<sup>st</sup> December: deadline for proposing candidates membership.
- 31 December: deadline for asking for Emeritus membership or resignation for next year.
- 7<sup>th</sup> January 2011: deadline to submit your full paper
- 10<sup>th</sup> January: deadline for the two hard copies of your paper.

## January Paris meeting in a new location

The 2011 January Meetings will be held in a building from the Sorbonne University:

**"Centre Universitaire Malesherbes", 108 Boulevard Malesherbes (Paris 17<sup>ème</sup>)**

Our 'old' meeting place La Mutualite is not available this year because it is being refurbished.

All the rooms are conveniently located on the 1<sup>st</sup> floor.



The coffee breaks will be on the ground floor in the hall. All rooms include beamers. Some computers are available downstairs. Wifi is available. Unfortunately it is not suitable for social activities like the cocktail and lunches. A list of restaurants around the centre will be given prior to the meetings.

## PowerPoint presentation on the web

The 2010 PowerPoint presentations are on Cirpnet now. You get them via Publications, CIRP Annals, Annals Year by Year and the push on (GA Presentations)

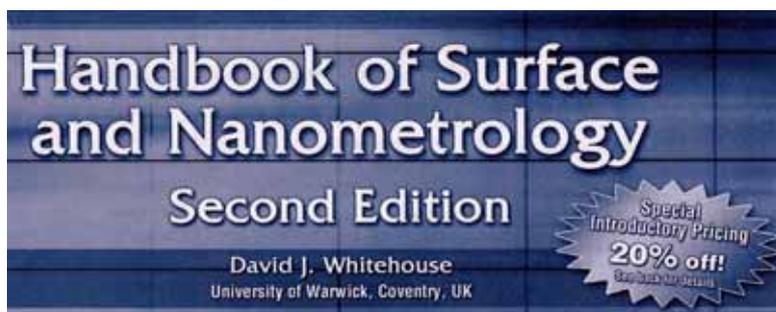
The screenshot shows the CIRP website interface. On the left is a vertical navigation menu with items like 'About CIRP', 'Publications', 'General Information', 'Scientific Meetings' Agendas, 'Newsletter', 'Registered Members', 'Links', 'Submit a Paper', 'Directory and Committees', and 'CIRP Meetings'. The main content area is divided into sections. The top section is 'STC A' with links for 'CIRP Annals', 'CIRP Journal of MST', 'CIRP Dictionaries', 'Internal Documents and Reports (Vol.3)', 'Unified Terminology', 'Proceedings', and 'CIRP History Book'. The 'Presentation' column lists 'Annals Online', 'Annals Year by Year', 'Annals Subscription', and 'Annals Search Engine'. Below this is a section for 'STC C' featuring a paper titled 'Advanced monitoring of machining operations' by R. Teti, K. Jemielniak, G. O'Donnell, and D. Dornfeld. A red arrow points to the '(GA Presentation)' link in the title.

The Annals 2010 are online on the CIRP Website (direct link through the “Quick Links” under your Login) with a link to all the Papers and Keynote Papers. The Annals back to 1961 are (almost all) available online on the CIRP Website as well, through the “Annals year by year”

For the first time the Annals Vol.2 have been sent in early September this year.

Corporate members are asked to indicate a “primary STC of interest” in their Profile online

## New Books



In the past five years, the role of surface geometry has changed dramatically due to three things; the push towards miniaturization, the permeating of nanotechnology into all disciplines and the explosion in use of computing techniques. I undertook the daunting task of identifying and

quantifying these trends. This book is the outcome. I have not just reported on the changes but have critically evaluated them and weighted them in context with traditional methods. All aspects of surface geometry are to be found in the book: manufacture, functional performance, characterization etc.

Attention has been drawn to the difficult situations where aspects of physics and mathematics not usually dealt with by engineers have permeated the subject, and which although bringing advantages, have also caused some confusion: problems associated with changes in properties with scale of size are typical examples.

The book is to be published by Taylor and Francis, ISBN 978-1-4200-8201-2,

# Conferences

Date	CIRP Conferences	Place
24-25 March 2011	<a href="#">12th CIRP Conference Computer Aided Tolerancing - CAT 2011</a>	Warwick, U.K.
27-29 March 2011	<a href="#">21st CIRP Design Conference</a>	Daejeon, Korea
2-4 May 2011	<a href="#">18th CIRP Conference On Life Cycle Engineering</a>	Braunschweig, Germany
5-6 May 2011	<a href="#">3rd CIRP IPS2 Conference</a>	Braunschweig, Germany
12-13 May 2011	<a href="#">13th CIRP Conference On Modelling Of Machining Operations</a>	Sintra-Lisbon, Portugal
1-3 June 2011	<a href="#">44th CIRP Conference On Manufacturing Systems</a>	Madison, USA
30 Jan - 1 Feb 2012	<a href="#">1st CIRP Conference On Surface Integrity (CSI)</a>	Bremen, Germany
16 May 2012	<a href="#">45th CIRP Conference On Manufacturing Systems</a>	Athens, Greece
21-23 May 2012	<a href="#">4th CIRP Conf. On Assembly Technology Systems - CATS 2012</a>	Ann Arbor, USA
24-26 May 2010	<a href="#">19th CIRP Conference On Life Cycle Engineering</a>	Berkely USA
17-19 April 2013	<a href="#">20th CIRP Conference On Life Cycle Engineering</a>	Singapore
8-11 May 2013	<a href="#">20th CIRP Conference On Life Cycle Engineering Conference</a>	Singapore
13 June 2013	<a href="#">14th CIRP Conference On Modelling Of Machining Operations</a>	Torino, Italy

Date	Sponsored Conferences	Place
3 -5 November 2010	<a href="#">TRIZFuture Conference 2010</a>	Bergamo, Italy
22-24 November 2010	<a href="#">8th GCSM - Global Conference On Sustainable Manufacturing</a>	Abu Dhabi
14-17 March 2011	<a href="#">XXII Conference On Supervising And Diagnostics Of Machining Systems</a>	Karpacz, Poland
18-20 April 2011	<a href="#">SheMet2011: 14th International Conference On Sheet Metal</a>	Leuven, Belgium
19 May 2011	<a href="#">12th International Cold Forging Congress</a>	Fellbach, Germany
25-27 May 2011	<a href="#">ISAM 2011 - 2011 International Symposium On Assembly And Manufacturing</a>	Tampere, Finland
7 11 June 2011	<a href="#">6th International Conference TOTAL QUALITY MANAGEMENT"</a>	Belgrade, SERBIA
23-26 June 2011	<a href="#">6th International Working Conference &amp; Exhibitions On Design &amp; Production Of Machines And Dies/Molds</a>	Turkey
28 Sep - 2 Okt 2011	<a href="#">9th Global Conference On Sustainable Manufacturing</a>	St Petersburg, Russia
28 September 2011	<a href="#">DET 2011 - 8th Conference On Digital Enterprise Technology</a>	Athens, Greece
2-5 October 2011	<a href="#">4th Conf. on Changeable, Agile, Reconf. and Virtual Prod.(CARV2011)</a>	Montreal, Canada
6 -7 October 2011	<a href="#">9th International "THE" Coatings Conference</a>	Thessaloniki, Greece
6 October 2011	<a href="#">ICMEN 2011 - 4th International Conference On Manufacturing Engineering</a>	Thessaloniki, Greece
25-27 July 2012	<a href="#">3rd International Conference On NanoManufacturing -nanoMan</a>	Wako- Satiama, Japan
8-12 April 2013	<a href="#">ISEM XVII - 17th International Symposium On Electromachining</a>	Leuven, Belgium