



The International Academy for Production Engineering

NEWSLETTER

N° 37 – April 2009

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

From the President

Dear Colleagues,

It was good to see you all in Paris. The weather was unusually mild and the meetings were quite productive.

I particularly enjoyed the Track meetings I attended and I hope you did too. The venue is to me the best we have ever had and our Paris based staff should be complimented on their selection and organization.

Last week I visited Boston, stayed at the conference hotel, the Westin Copley Place, conferred with the conference organizers and examined the meeting rooms etc. The meeting is in the central part of the city and in a very good location. The web site should be on line soon. The organizers are doing a fine job and I am extremely confident that we will have a great General Assembly in 2009.



On another note, the Danish have organized the annual Research Affiliates meeting for the 1st through the 4th of July 2009 in Copenhagen. I plan to attend and look forward to meeting more of our Research Affiliates.

I hope all of you are having a productive and happy 2009.

Robert J. Hocken

News about Members

Professor Pat McKeown:

The Institution of Mechanical Engineers
has been awarded

The James Clayton Prize 2007

to

Professor Emeritus Pat McKeown
OBE FEng FIMechE FIET FCIRP Hon DSc

for

**HIS CONTRIBUTIONS TO THE DEVELOPMENT AND
PROMOTION OF THE ARTS AND SCIENCES OF
PRECISION ENGINEERING”
2ND OCTOBER 2008**



Dr. Marlies Patz:

Dear CIRP colleagues,

Herewith I would like to inform you that I have accepted a call as professor for manufacturing technology to the University of Applied Sciences Jena (Germany/Thuringia) and thus will leave the GFE - Society for Production Engineering and Development beginning 2009. In the future the interests of our research association will be represented by the managing director, Dr. Frank Barthelmä.

I would like to thank you very much for the friendly, very enjoyable collaboration over the last seven years. If applicable I would like to cooperate with you on suitable topics also in the future.

For your private and professional future I wish you all the best!

Yours sincerely
Marlies Patz

Professor Günter Spur

**Birthday Congratulations to
Professor em. Dr. h.c.mult. Dr.-Ing. E.h. mult.
Günter Spur,
CIRP President 1977 til 1978**

In the name of the International Academy for Production Engineering (CIRP) it is with great pleasure that I may convey all our best wishes to Professor Günter Spur's 80th anniversary, which was celebrated on October 28th.

For more than 40 years Günter Spur has in a very special way initiated and has been actively involved in developments within the area of production engineering. In particular his full commitment to the academy and his manifold contributions to the work of CIRP were great and distinct contributions to the development of the academy into an internally recognised and a well heard voice in production engineering science. Over the years Professor Spur took seats on many boards of the academy.



The engineering science areas which Professor Günter Spur is representing encompass Machine Tools and Manufacturing Technologies, Computer Aided Design, Computer Numerical Control, Factory Automation, Factory Organisation and many others. All of these areas are closely related to the core business of the Academy. Due to his wide spread knowledge in production engineering and the leading edge research he carried out at the TU Institute of Machine Tools and Factory Management (IWF) as well as the Fraunhofer Institute of Production Systems and Design Technology (IPK) in Berlin, which both were headed for many years by him,

Günter Spur contributed to the work of almost every Scientific Committee (STC) in CIRP. Many CIRP seminars and conferences were organised by him, providing international platforms for engineering science to exchange latest findings and for farsighted discussions on how the future of production engineering might look like. Günter Spur's way of visionary thinking was and still is very impressive. Apart from that in many cases he was also the main driving force for the implementation of developments into real life. From 1977 until 1978 Professor Günter Spur was the President of CIRP. Under his guidance the General Assembly of the year 1990 was organised and held in Berlin, the year after the wall came down, an unforgettable event for everybody who took part.

We wish Günter Spur belated all the best, best of health and many other happy years to come.

Paris, November 2008
Professor Dr.Ing. Dr.Ing. E.h. Fritz Klocke
CIRP President 2007 til 2008

Juan Manuel Minguez,

Dear friends,

I would like to inform you that last Friday October 31st was my last working day at IDEKO, I decided to go into retirement at the age of 61 years together with my wife. We are very happy to start with this new golden stage. It has been a pleasure to work with all of you during many years and I would like to thank you for help and support.

Fur further professional matters please contact Mr. Joseba Perez Bilbatua, Director of International R&D projects he is the responsible for all international related matters. We have been working together during the last 6 years and I would like to tell you that he is a very good person and excellent professional with an experience more than 12 years in international R&D projects..

Best regards and good bye
Juan.

New Contact:

International R&D Projects Director Joseba Pérez Bilbatua
IDEKO, S.COOP.

Arriaga Kalea 2, 20870 ELGOIBAR
Tel:+34 943 74 80 00 Fax: +34 943 74 38 04
www.ideko.es

Wim de Bruin in Memoriam

Our emeritus fellow Wim de Bruin (23-6-1924) has passed away at Wednesday April 1st. Wim has entered CIRP in the mid sixties as an assistant of prof. Van Hasselt and has been active in the STC's "P" and "S". In 1981 he became Active Member. His main fields of interest were surface topography, roughness, flatness and advanced measuring methods. During the years he also contributed to Unification and Standardization duties within CIRP and ISO. After his retirement in 1989 he still kept active within CIRP. His last contribution was a statistical report about the use of keywords in the 2007 Annals.

After he and his wife Diny contributed to the accompanying program in Enschede 1995 his wife was affected by a serious brain attack. Wim visited her in the nursing home twice a day until she died in 2006. The last years he found new happiness in an increased relation with Annie who has been a friend of the family for over fifty years. We wish her and the children the strength to overcome this loss.



The Corporate Members Group

by John Barry

The Corporate Members Group meeting in Paris 2009 was well attended and the discussions focused mostly on progressing the roadmap concept and formal participation of Corporate Members in the Opening Session of General Assemblies.

Following many useful suggestions from the floor, it was concluded the practical challenges in realizing a roadmap were such that it would be best for the Corporate Members Group to first define - from an industrial perspective - the principal drivers and challenges facing production engineering in the years ahead. Interestingly, we learned of other roadmap activities within CIRP, for example, the Grinding Roadmap being coordinated by Dr Hashimoto. The CMAG chair has since written the entire corporate membership seeking input to this exercise and requesting feedback before the end of May. It is planned that the results will be reviewed at the CMAG meeting in Boston. With regard to Corporate Membership formally contributing to the Opening Ceremony, the leading suggestion is for CMAG to formally present a collective statement on future challenges and their R&D requirements. It is considered that this could be a constant theme from year to year and would potentially provide a stimulus to STC and track activities.

The letter which has been send to the CM's is shown below.

Dear Colleagues,

During the current downturn, many of you will be working hard to improve your immediate competitive position. However, safeguarding the future within the medium- to long-term is never too far from our minds either. For many of us, developing new production technologies is our principal concern, but of course, none of us work in isolation and our individual efforts are guided by others in the field, not least, the activities of colleagues within our own organization - CIRP. Despite the present difficulties, our recent Corporate Members meeting in Paris was well attended and we write to advise you of the discussion and actions arising and kindly request your input prior to the next discussion in Boston in August.

The majority of the discussion in Paris explored the merits of forming a roadmap for manufacturing technology within the CIRP – an initiative first explored in Jan 2008. Many of us see merit in the roadmap ‘vision’ but appreciate the enormity of the task. Interestingly, we learned that Prof. Seliger has raised roadmap development within STC-O, while Dr. Hashimoto within STC-G is currently developing a Grinding Roadmap - we wish them both well in their endeavors. So while we are not alone in our thinking; it was felt that presently, it would be best for the Corporate Members Group to first define - from an industrial perspective - the principal drivers and challenges facing production engineering in the years ahead.

Many of you may be aware of existing high-level national and trans-national strategic research agendas, such as Manufuture prepared by the European Commission (www.europa.eu.int/comm/research). Such agendas are invaluable for research strategists and decision makers but are mostly concerned with generic methodologies and high-level objectives rather than specific scientific or technological issues. Within CIRP, we are equipped to deal with issues on many levels but our concerns are primarily of a scientific nature. This is reflected in our STC (Scientific and Technical Committee) and Track structures. Coincidentally, in accordance with the Regulations of CIRP, STCs are responsible for establishing research goals. In our efforts to collate and document a comprehensive statement of future technology needs from industries perspective, we are mindful of the complementary activities in this area.

It was concluded in our discussion that Corporate Members should be provided with the opportunity to comment on the medium- to long-term research needs for their respective organizations. We kindly request therefore, that

you identify the most pressing technological challenges and drivers in production engineering which you face in the years ahead. We would appreciate your input before May 31st so as permit compilation of materials for review at the General Assembly in Boston.

In addition, we envisage further possibilities: Where individual STCs are disposed towards developing specific technology roadmaps, the statement of needs and drivers from industry will surely provide a meaningful goal.

Following Councils approval for a Corporate Members presentation in the Opening Session of the General Assembly, it seems most reasonable that the theme of the presentation would be the future research needs of industry. Such a formal statement from Corporate Members, addressed to the entire CIRP Membership would be a powerful statement indeed.

We believe that once we achieve sufficient momentum, this 'initiative' will become self-sustaining. While fully developed technology roadmaps may result from interaction with the STCs and the Tracks, the statement of needs will in itself be a valuable reference and discussion document.

Please send your response to a.klink@wzl.rwth-aachen

Thank you for your co-operation John Barry and Fritz Klocke

CIRP Research Affiliates

Starting with the successful kick-off meeting of the CIRP research affiliates (RA) in Aachen last July (see Newsletter 35) the network is well developing and proceeding. After the election of 12 new affiliates during the January Meeting there are now 76 affiliates in total. Their names and affiliations can be found on the CIRP webpage. It is a great honour for all affiliates to be elected into this network.



Several meetings have already taken place and the research affiliates have started fruitful discussions on future activities within the network and within CIRP according to the defined **aim** of our network:

“The aim is to create a sustainable network affiliated with CIRP to promote and to develop upcoming young researchers in production engineering. Affiliates will create an information exchange network, exchange and discuss research ideas and results, create joint research projects, and get easy access to CIRP members.”

From this general aim the following **objectives** were derived:

- Contribute to the community in accordance with the vision and mission of CIRP.
- Use the CIRP RA network for exchange of research activities, ideas and relevant topics in order to improve efficiency of doing research work.
- Elaborate joint publications in agreement with the CIRP fellows and rules, prepare newsletter contributions, organize workshops, etc.
- Foster multi-disciplinary discussions and approaches and
- Propose collaboration: information exchange, CIRP work, research projects.

At this stage, the research affiliates would like to propose a number of ideas - besides the overall goals of achieving excellence, high standards and high quality - as to how possible activities could look like, and the research affiliates would now like to seek feedback from all CIRP members. These are:

1. **Efficiency:** Use the network to exchange research work and relevant topics.
2. **Visibility:** Elaborate joint publications, CIRP-newsletter contributions, workshops (with invitations of fellows or external speakers).
3. **Multi-disciplinary:** Work within the current theme of multi-disciplinary within CIRP such as track and cross-track joint activities and identification of common topics
4. **Collaboration:** 3 possible “levels” can be addressed: (a) informal collaboration beside/without certain projects, (b) CIRP collaborative work, (c) collaborative research projects. The multi-disciplinary approach should be emphasised.
5. **Support / contribution:** Support activities of CIRP, support individual work, foster personal development.

Possible activities have been identified:

- Annual meetings / workshops + meetings in the frame of CIRP-meetings
- Prepare contributions to the official CIRP-newsletter
- Establish forum and webpage (introduction of RAs, information exchange)
- Prepare joint publications
- Organise guest lectures
- Invite external lecturers to RA-meetings
- Propose and initiate collaboration
- Organise exchange and promotion of students
- Be present, active, visible at CIRP-meetings (e.g. technical presentations)
- Organise industry visits
- Permit internal review of working papers
- Support preparation of internet presentations

There are a number of emerging activities that CIRP will be undertaking in next months and years including road mapping and increased dissemination and these activities will be supported by the CIRP RA network.

At the moment, an excel spreadsheet is being assembled containing the contact details together with the fields of expertise of all research affiliates. This document will soon be available on the CIRP webpage.

Meetings of the CIRP Research Affiliates

The following meetings already took place:

- 10th - 13th July 2008: Kick-Off meeting (Aachen)
- 26th August 2008: General Assembly meeting 2008 (Manchester)
- 10th - 11th December 2008: Strategic meeting (Hannover)
- 29th January 2009: Paris meeting 2009 (Paris)

The following meetings have been planned for the near future:

- 1st - 4th July 2009: Annual meeting 2009 (Copenhagen)
- 23rd - 29th August 2009: General Assembly meeting 2009 (Boston)

The research affiliates agreed to have one annual meeting in addition to the official meetings held in conjunction with the General Assembly and the January Meeting in Paris. This annual meeting will be dedicated to the research affiliates, and it will be of about 2 to 3 days duration (comparable to the Kick-off meeting in Aachen). Part of this meeting will be dedicated to technical discussions (workshops) on subjects (some of) the research affiliates are working on. Another part of the meeting is dedicated to the discussion of a general topic, for which an external expert could be invited. First proposals for the next technical topic are “eco-efficiency”, “hybrid processes”, “life-cycle engineering”, “changeability – adaptability - agility”, “e-factory & networks”.

It is intended that the main results of this meeting will be published in some kind of proceeding, which will be made available to the entire CIRP community via the CIRP website.

The 2nd annual meeting of the CIRP RA network will take place in DTU, Copenhagen on 1st-4th July 2009, hosted by Prof. L. Alting and CIRP RA colleagues Dr. A. DeGrave, R. Akkerman and Dr. G. Tosello. There will be an external speaker who will talk about "innovation management". Also, discussion sessions will be held around the theme "eco-efficiency and sustainability".

The 3rd annual meeting in 2010 will be held in Ireland hosted by Professor G. Byrne, and CIRP RA colleagues Dr. G. O'Donnell, Mr. K. Tuffy and Mr. N. Pretorius. At this stage we would already like to thank Professor G. Byrne for this invitation.

The CIRP research affiliates have also been invited to the 2nd International Researchers Symposium 2009 on Innovative Production Machines and Systems, 22-24 July 2009, Ischia, Italy, hosted by Professor Roberto Teti. The participation of affiliates will be free of charge. We would like to thank Professor Teti for his invitation as well as for support he is offering to the RAs.

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

Engineering Education and the White Paper Approach

Living standards and the development of our society are intimately linked with technical knowledge and technical expertise. Science and technology are the foundations of economic well-being, and they are the basis for facing the great questions of the future that stand before us with technical solutions.

Technology is being developed and applied in all cultures, but, in many developed economies, we are also seeing fewer and fewer people getting involved actively in technological fields. Within Germany, we have seen a reduction in student enrolments in mathematical and scientific subjects as well as in engineering. Demographics lead us to expect this trend to continue. As so more an excellent technical education will be necessary.

CIRP as the International Academy of Production Engineering has developed excellent prerequisites in this field. CIRP is in a good position to become an important “multiplier” and pace-setter in this area.

The support and development of science and technology must surely take into consideration national, geographic and also structural influences. It is obvious that all members of CIRP should, within his or her personal area of responsibility as well as under the given marginal conditions, develop technical solutions and also make them known within society. Selective single measures are commendable and must be supported; they could attract much attention in the general public. However, this seems especially necessary now, as many are consciously reflecting on the fact that value creation and real economy are important mainstays in well-balanced market systems. Not the least on account of the current economic crisis, production and production technology are again attracting increased social attention. People are realising that, in a well-balanced market economy, value creation and production must also be pursued.

It is for these reasons all the more important, especially now, to inspire young people for science and technology and to prepare young engineers currently in training for the solution of those tasks that lie before us.

The International Academy of Production Engineering has done important preliminary work in this complicated field - through individual involvement, collaborative working groups and workshops. Perhaps now is just the right time to summarise the knowledge we have gained so far and to make a concerted effort, together with international academies and other organisations, actively to expose that knowledge to a broader public.

In this context in Manchester at council it was considered and after thoroughly discussion recommended exploring the possibility whether CIRP White Papers could be an additional format to distribute CIRP knowledge to the outside world. To get a serious platform for further discussion in the first step it was decided to draft an appropriate procedure for the creation process of white papers. This preparation work is currently done by Hoda ElMaraghy and me. We will report on this work in Boston.

Independently whether the decision process of having CIRP White Papers or not can be brought to final conclusion in Boston, in my perspective it would be very desirable if, within CIRP, an initiative was made to obtain internationally valid statistical information regarding the number of student enrolments in engineering science, jobs in engineering etc. Any statistical data available on the subject of engineering education could very nicely be made use of to develop a consistent CIRP information platform.

I will be glad if this newsletter motivates you to consider these ideas or even already engage into this call for a possible common activity.

In case you have data available may I ask to forward this information to me? I will be glad to pulling everything together and to bring it to everybody's attention at the general assembly and to initiate a discussion on how to proceed.

My email is: f.klocke@wzl.rwth-aachen.de

I am looking forward to receiving your contributions and/or remarks on this issue. In particular I will be glad to say hallo to everybody in Boston.

Fritz Klocke

PowerPoint Presentations on the web

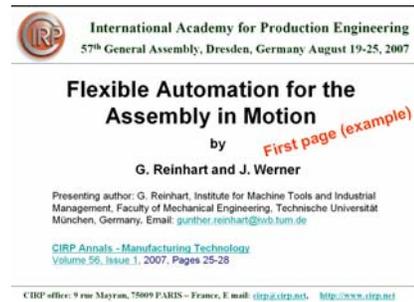
The question came from the CMAG meeting:

“Can we get access to the PowerPoint slides of the presentation? When we will show latest results in our company than often it happens that the slides used at the oral presentation contains more and/or later information than in the printed Annals”.

In January it was agreed already to put the slides on the web but it worked out that it was not possible to have a link to the papers itself in ScienceDirect. Now it has been decided to put them on CIRPnet connected to the page showing the abstracts of the Annals (Publications/CIRP Annals/Annals Year by Year. This page contains all the abstracts (Vol 1 and Vol 2).

To proper identify the presentations, especially afterwards on a printout, the **first slide** (title page) **should contain:**

- Logo and affiliation of CIRP
- Conference details (Name, place, date)
- Title of the paper
- Authors (all)
- Presenting author (with link to e-mail address)



The next slides may contain:

CIRP logo + authors institute's logo (except for a keynote paper, which is a combined STC effort). An example will be places on the web site (Instruction to Authors/Oral Presentations).

Presentations will be stored in a compact .pdf format. Authors will be asked (at the paper submission form) to agree with publication of their slides on the web. They have the right to refuse or may remove “confidential” slides. This process starts with the 2009 Annals.

From the secretariat

How the Secretaries share their tasks in CIRP: which one to contact?

Chantal and Agnes have very flexible tasks at the CIRP Secretariat, with a common email address, so that they are always aware of what's happening with any kind of email. This is sometimes puzzling for members who don't know which one to address: they write to one – the other answers! Here is a rough summary:

If you have any request about financial aspects in CIRP (fees, page charges, or any kind of payment or invoice), you should rather address Agnes, who is the accountant. She also records the Registrations to the January Meetings, handles the CIRP or sponsored Conferences' fees and reports, gathers the Agendas and Minutes from the Tracks/STC/CWG meetings and put them online on the Website.

For any request about the Papers/Keynote Papers to be published in the Annals, CIRP meetings, matters on the Website, candidatures for Membership, Internal Regulations, or any other information, you should rather address Chantal.



Chantal Timar-Schubert



Agnès Chelet

A new category of Event has been set up in the Events online on the CIRP site: it is called "Future proposed events".

The aim is to submit the dates for your future event (to be approved at the next Liaison Committee meeting), in order to avoid having two conferences at the same dates. This will allow you checking if your dates are free in the calendar, and will as well reserve those dates for your conference. You will find an "example event" online in this category to explain you the very simple way to add your event online.

Journal of Manufacturing Science and Technology : very low price for CIRP Members and Research Affiliates.

Those who receive the Annals should have received a renewal proposal for subscribing to the JMST (Journal of Manufacturing Science and Technology) sent to you by Elsevier for free last year. If some Emeritus members or Research Affiliates wish to subscribe at the very low rate granted to CIRP Members, please contact the CIRP Office for more information.

Good news for those who prefer consulting the Annals on our website.

Elsevier has agreed to let us upload our CIRP Annals on the CIRP website, like before – this will of course be restricted to our Members registered online. The missing years 2007 and 2008 will be soon available online (you will be informed by email).

Papers' presentations online on the CIRP site.

From the next General Assembly onwards, the PowerPoint presentations of the papers will be available online, together with the papers. Authors will be requested to transfer their presentation to the STC Secretary of each STC session, so that everything can be gathered by the CIRP Office afterwards and uploaded on the website. The authors' approval (or disapproval) is requested during the submission process of the revised paper final submission on EES (Elsevier Editorial System).

Important dates.

General Assembly's

- 23-29 August 2009, Boston, USA
- 22-28 August 2010, Pisa Italy
- 21-27 August 2011, Budapest, Hungary
- 19-25 August 2012, Hong Kong, P.R. China

January meetings

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

Impact factor of the CIRP Annals

The Impact factor of the Annals has declined unexpectedly last year. In the mean time it was found that Part 2 of the Annals (the keynotes) was distributed very late (in December and for some members in January of the year after). For that reason it was not taken into account. The same has happened in 2008. For this year an earlier distribution has been decided. The deadlines have been adapted accordingly.

Year	Abbreviated Journal Title (<i>linked to journal information</i>)	Total Cites	Impact Factor	Immediacy Index	Articles	Cited Half-life
2006	CIRP ANN-MANUF TECHN	3066	0.989	0.046	153	>10.0
2007	CIRP ANN-MANUF TECHN	2690	0.779	0.036	138	>10.0

Full paid PhD positions available

The University of Twente in the Netherlands offers the following research positions in the field of laser materials processing

Texturing by Ultrashort Laser Pulses (TULP) (2 positions)

Processes for fabrication of micro- and nano scale surface structures. Goal: special contact surfaces in metal or ceramic for friction control in precision equipment and hydrophobic-hydrophilic patterns that can be replicated in polymer surfaces. Resulting micro-nano textures will also be applied to increase PV efficiency

NanoClean

Optimization and upscaling of self-cleaning surfaces for automotive sector by combining tailored nano-structured machined injection tools and functional thermoplastic nano-compounds aiming to the mass production of permanent superhydrophobic and self-cleaning plastic components

CladControl

This project focuses on enhanced reliability of laser clad industrial products through online feedback process control. The goal is to develop fast production methods and tools for highly reliable components with low residual stresses.

Further Information: Prof.dr.ir. Bert Huis in 't Veld: a.j.huisintveld@ctw.utwente.nl
<http://www.wa.ctw.utwente.nl/news/vacancies.doc/>

Meetings, Conferences, Seminars

The CIRP and sponsored conferences are listed in chronological order. The hyperlink to the conference provides further details.

2009	Conference	Place
4-6 May	16th CIRP Life Cycle Engineering Conference	Cairo, Egypt
7-8 May	12th CIRP Conference On Modeling Of Machining Operations	San Sebastian, Spain
1-4 June	5th IWC TOM Conference	Belgrade, Serbia
3-5 June	42nd CIRP Conference on Manufacturing Systems	Grenoble, France
18-21 June	5th Intl Conf. on Design And Production of Dies/Moulds	Kusadasi Aydin, Turkey
8-10 September	ICMR'2009 - 7th International Conference On Manufacturing Research	Warwick, Coventry, UK
5 – 7 October	3rd CARV Conference	Munich, Germany
6-10 October	VRAP'09 - International Conference on Advanced Research in Virtual & Rapid Prototyping	Portugal
20 October	CPI'09 - 6th CPI Conference	Fès, Morocco
4-6 November	TRIZFuture Conference 2009	Timisoara, Romania
10-11 November	ICAFT 2009 - Intl Conference On Accuracy In Forming Technologies	Chemnitz, Germany
2-4 December	7th Global Conference On Sustainable Manufacturing	Chennai, India
14-16 December	DET 2009 - 6th Conference On Digital Enterprise Technology	Hong Kong

2010	Conference	Place
3-5 February	COMA'10, International Conference on Competitive Manufacturing	Stellenbosch, SouthAfrica
14-17 February	IPAS'2010 - 5th Intl Precision Assembly Seminar	Chamonix, France
19-23 April	ISEM XVI	Shanghai, China
19-21 May	17th CIRP Conference On Life Cycle Engineering	Hefei, China,
26-28 May	43rd CIRP Conference On Manufacturing Systems	Vienna, Austria
27-28 May	NAMCR 38	Kingston, Canada
1-3 June	3rd CIRP Conference On Assembly Technology Systems - CATS 2010	Trondheim, Norway
June	2nd International Conference on Process Machine Interaction	Vancouver, Canada
16-18 June	7th CIRP Conference On Intelligent Computation In Manufacturing Engineering	Gulf of Naples, Italy
17-19 June	APE'10 - 5th Intl Conf. On Advances In Production Engineering	Warsaw, Poland
1- 4 October	6th International Conference "THE" Coatings and 3rd International Conference on Manufacturing Engineering - ICMEN	Kallithea-Halkidiki, Greece
24-26 October	4th CIRP International Conference on High Performance Cutting	Nagaragawa, Japan

2011	Conference	Place
May	18th CIRP Conference On Life Cycle Engineering	Braunschweig, Germany
12-13 May	13th CIRP Conference On Modeling Of Machining Operations	Sintra-Lisbon, Portugal
1-3 June	44th CIRP Conference On Manufacturing Systems	Madison, USA