



The International Academy for Production Engineering

NEWSLETTER

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1. From the President
2. Spotlight
 - Professor Rajiv Shivpuri elected a Fellow of ASME
3. Impact factor of the CIRP annals
4. Meetings Seminars, conferences

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1. From the President

Continuation

Dear Colleagues,

Today let me touch the state of the art of our considerations on implementing

Research tracks.

We had a very effective preparation workshop in Dublin. I am gladly taking the opportunity to bring the latest ideas and a provisional outline for the group discussion to your attention.

The content of CIRP's work is characterised and driven by the STC's. This is strength and must remain so also in future. For this reason, a two-pronged approach seems prudent. The formation and discussion of fundamental questions in scientific committees (STC's) is extremely necessary and have also been successful; this basic structure should not be altered. So definitely the STC working structure will remain as it is. Also the importance and visibility of the work will stay on a prominent high level.



The past also shows that, for the sake of treating comprehensive questions within a larger field, a collective approach by different STC's is the best solution. Of this we have seen many successful examples, for instance, from composing joint keynote papers to working in common working groups. At this point the idea of track meetings might be introduced. By means of an intelligent clustering of various STC's into particular research tracks we see the possibility of addressing larger topics competently in our academy and working out potential solutions. By bringing together members of different backgrounds, we broaden the horizon of the discussion – we make it possible for us, for all academy members, to contribute our thoughts, experiences, our knowledge and our visions to the complex field of “technology and the future”. This will be an excellent starting point to discuss strategically what overall issues should be addressed in the future. Even without external influences, this would be an essential measure to satisfy the basic aspirations ensuing from the self-conception of an academy and to contribute to the vision of the academy. The platform of Research Tracks might open up even many more possibilities. It gives us a framework for approaching fundamental questions for a more encompassing production theory and for analysing paradigm changes. It also gives us the prerequisite for composing statements on current issues and for taking the production of reports and white papers into consideration. And last but not least with the implementation of track meetings we will even find more time in the STC's to focus on rich in content discussion and reduce administrative work to a minimum.

We will have three track meetings, with the following STC's involved.

Track 1: STC E, STC F, STC G and STC C.

Track 2: STC M, STC S and STC P.

Track 3: STC A, STC Dn and STC O.

Each Track meeting will be chaired by a track coordinator. For the Manchester meeting I have asked distinguished and experienced colleagues whether they would be willing to help and to volunteer as a track coordinator. Bernhard Karpuschewski (Track 1), Yusuf Altintas (Track 2) and Günther Seliger (Track 3) immediately agreed to serve as a track coordinator, even not knowing in detail what amount of work will come up to them. Meanwhile, after the meeting in Dublin, they have a clue; it will definitely require them to invest a reasonable amount of their time and other resources to put everything together and to organize the whole process. The good thing is, they are still enthusiastic about the idea because they see the potential of the approach and the benefits, which might be derived from the discussions for the sake of the academy's work and the academy's reputation. This high degree of cooperativeness is what I have experienced so many times in our academy when there was a need to move things along and to try out new ideas. In this particular case I am really grateful for the help of our colleagues to chair the track meetings as track coordinators. Assuming we are continuing the track meetings also in future we have to implement a good process for the nomination of track coordinators. We are right now working out a concept for this process. I let you know about details as we have a draft concept available.

We also organized an outline for the track meeting as well. Let me comment on the issues a little bit more in detail:

The general outline is identical for all the three track meetings and will cover the following main issues.

Item 1: Introduction

Summary of the Track Concept, either the President or the Vice-President will introduce the Track Concept to the auditorium.

Item 2: Collaborative Working Groups

2.1 Report

2.2 Future CWG's

This item is split into two sub-items: Report and Future CWG's

Under **report** the participants will receive a short, focused report on status and progress of CWG's which are running. Under **future CWG's**, contributions are asked for, which address new topics (for further actions).

Item 3: Open Input on Track Strategy and Track Modus Operandi

Meeting participants are invited to provide input in relation to Track Strategy and Modus Operandi of the Track.

Item 4: Discussion

Item 5: STC Administrative Issues

Administrative issues from the STC's involved in the tracks will be handled. This will allow the individual STC's to focus fully on rich in content subjects. We consider this to be an important step towards reduction of non-effective times.

Item 6: Any other business

As time come we might add on some more items on the agenda, the thinking about this is still in progress.

We can't change everything overnight, but we can follow this path step-by-step. I really appreciate your inputs, comments and observations on this approach. The track structure

might be a first organizational approach to enable CIRP to gradually evolve into a world-leading academy with real international impact, steadily becoming an audible voice for the outside world as a confident, accredited and prominent partner in the international community of production engineering.

The general assembly in Manchester will be providing the framework for the first time for applying this integrating working structure, for monitoring its capability and also for judging it with respect to its effectiveness.

We have prepared everything well and are also very eager to see the fruits of the Research Tracks' labours and how your experiences and recommendations for future courses of action will turn out.

Prof. Fritz Klocke
- President of CIRP -

This is the last presidential message of a series of three.

The subject will be discussed further at the General Assembly in Manchester.

The two former messages can be read at the CIRP website:

Nr 1: http://www.cirp.net/images/cirpfichiers/publicfiles/Newsletter/news_32_april_2008.pdf

Nr 2: http://www.cirp.net/images/cirpfichiers/publicfiles/Newsletter/news_33_may_2008.pdf

2. Spotlight

Professor Rajiv Shivpuri elected a Fellow of ASME

Professor Rajiv Shivpuri has been elected a Fellow of American Society of Mechanical Engineer. (Only 3% of the full members have been elected as fellow). Prof. Shivpuri was previously elected to the College of Fellows of the Society of Manufacturing Engineers and of the American Society for Materials International.

In their notification ASME cited:

“Dr. Shivpuri has made research significant contributions in advancing design of manufacturing processes, computational modeling of material physics, and mechanical and chemical phenomena at the interface and in doing so developed new techniques, new methodologies and new information that have significantly transformed the manufacturing field. This synthesis of many disciplines has been achieved by developing newly emerging disciplines of computational modeling, probabilistic design and artificial intelligence.



Many of his innovations have been implemented in the manufacturing industry including software ROLPAS, CADEX and CATDRAW used in process design and optimization. Dr. Shivpuri has advised over 100 masters and doctoral theses, published over 300 papers and been a consultant to major automotive and aerospace manufacturers. For this he has received numerous awards and has been recognized nationally and internationally for research excellence. Dr. Shivpuri has held leadership position in many professional societies, and is a Fellow of SME as well as ASM International.”

3. Impact factor of the CIRP annals

Year	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	Impact Factor	Immediacy Index	Articles	Cited Half-life
2003	CIRP ANN-MANUF TECHN	****-****	2375	0.974	0.040	125	10.0
2004	CIRP ANN-MANUF TECHN	****-****	2752	0.973	0.038	133	>10.0
2005	CIRP ANN-MANUF TECHN	0007-8506	2348	0.891	0.037	136	>10.0
2006	CIRP ANN-MANUF TECHN	0007-8506	3066	0.989	0.046	153	>10.0
2007	CIRP ANN-MANUF TECHN	0007-8506	2690	0.779	0.036	138	>10.0

The last numbers show an unexpected drop in the citation index as shown above. This has to be examined carefully by the board the publishing committee and Elsevier. In the mean time the membership itself can become more active by encouraging citation from our Annals. As shown in the table below most citations are in the annals itself by now. This table is the first (but most relevant) of 7 pages. The full table can be found at the JCR webpage.

Impact	Cited Journal	All Yrs	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	Rest
	All Journals	1580	16	203	182	129	118	119	90	73	86	64	500
0.779	CIRP ANN-MANUF TECHN	471	0	49	56	37	47	42	24	28	26	18	144
0.816	J MATER PROCESS TECH	28	0	2	3	9	1	2	2	1	3	1	4
1.120	INT J MACH TOOL MANU	23	0	4	2	2	2	6	3	0	1	0	3
0.560	INT J PROD RES	20	1	1	1	1	1	0	1	2	4	1	7
0.595	J MANUF SCI E-T ASME	12	0	1	0	3	0	3	1	1	2	1	0
	P SOC PHOTO-OPT INS	10	0	0	1	2	1	1	2	1	1	0	1
3.596	APPL PHYS LETT	9	0	0	1	1	0	2	0	1	2	1	1
1.096	EUR J OPER RES	9	0	2	2	0	0	1	1	1	1	0	1
1.788	DIAM RELAT MATER	8	0	0	0	0	0	0	1	1	1	3	2
1.013	INT J MECH SCI	8	0	0	0	0	0	0	1	3	0	0	4
0.733	PRECIS ENG	8	0	0	0	0	2	0	0	1	0	0	5
	PROD ENG	8	0	4	0	2	0	0	1	0	0	0	1
26.372	SCIENCE	8	0	0	0	1	0	1	0	3	0	0	3
	T ASME	8	1	1	0	0	0	1	0	0	0	0	5
2.171	J APPL PHYS	7	0	0	2	0	0	1	0	1	0	0	3
2.200	J PHYS D APPL PHYS	6	0	2	0	0	0	0	0	1	0	0	3
0.203	P I MECH ENG B-J ENG	6	0	0	2	0	1	1	0	0	0	0	2
1.701	APPL OPTICS	5	0	0	0	0	1	1	0	1	0	1	1
1.406	APPL SURF SCI	5	0	0	2	0	0	1	0	0	1	1	0

4. Meetings, Conferences, Seminars

The CIRP and CIRP sponsored conferences are listed in the table in chronological order. There is a hyperlink from the conference name to the website providing all details about that particular conference.

2008	Conference	Place
28-29 May	7th conf on High speed machining	Darmstadt, Germany
26-28 May	41st CIRP Conference on Manufacturing Systems	Tokyo, Japan
12-13 June	3rd International Conference on High Performance Cutting	Dublin, Ireland
7-9 July	9th ASME Engineering Systems Design and Analysis Conference	Haifa, Israel
23-25 July	6th CIRP Intl Conference on Intelligent Computation in Manufacturing Engineering.	Naples, Italy
3-4 September	1 st International Conference on Process Machine Interactions	Hannover, Germany
16-17 September	11th CIRP Conference on Modeling of Machining Operations	Gaithersburg, USA
21-23 September	2nd CIRP Conference on Assembly Technologies and Systems	Toronto, Canada
1 October	CIMEC	Nantes, France
1-4 October	6th International Conference "THE" Coatings and 3rd International Conference on Manufacturing Engineering - ICMEN	Kallithea-Halkidiki, Greece
8-10 October	The 7th International Meeting IDMME	Beijing – China
20-22 October	5th International Conference on Digital Enterprise Technology - DET	Nantes, France
20-23 October	2nd Int Conf. On Innovative Cutting Processes And Smart Machining	Cluny, France
5-7 November	TRIZ Future' 08	Enschede, Netherlands

2009	Conference	Place
1 January	42nd CIRP Conference on Manufacturing Systems	Grenoble, France
26-27 March	CIRP Tolerancing Conference	Annecy, France
30-31 March	19th CIRP Design Conference	Cranfield, UK
1-2 April	CIRP IPS2 Conference	Cranfield, UK,
2-3 April	Intl Conference on Burrs-Analysis, Control and Removal	Kaiserslautern, Germany
7-8 May	12th CIRP Conference On Modeling Of Machining Operations	San Sebastian, Spain
1-4 June	5th IWC TQM Conference	Belgrade, Serbia
18-21 June	5th Intl Conf. on Design And Production of Dies/Moulds	Kusadasi Aydin, Turkey
16-18 September	3rd CARV Conference	Munich, Germany

2010	Conference	Place
1 January	43rd CIRP Conference On Manufacturing Systems	Vienna , Austria