



The International Academy for Production Engineering

NEWSLETTER

N° 53 – November 2016

CIRP Office: 9, rue Mayran, 75009 Paris France, tel. +33 1 45262180 - Fax +33 970 600 595
e-mail cirp@cirp.net - web site: <http://www.cirp.net>

Contents

From the President..... 3

From the editor 5

News about Members..... 6

Professor Jian Cao received the 2016 SME Frederick W. Taylor Research Medal..... 6

Professor Bob Hahn celebrated his 100 year birthday..... 7

CIRP Awards..... 8

F.W. Taylor Medal 2016..... 8

General Assembly 2016: A Photo Reportage 9

ELECTIONS by the General Assembly 2016 14

Conferences & Papers 15

Our Conferences15

Future Keynote Papers15

From the Editorial Committee..... 19

From the Research Affiliates 22

From the CIRP Office 23

News23

Updated CIRP Regulations23

Future CIRP Meetings23

From the President

Dear Colleagues

We experienced the unexpected loss of our former President (served 2014-2015), Professor Kanji Ueda on November 10, 2015, and Vice President (served 2015-2016), Professor David Dornfeld on March 27, 2016. Both served as highly active CIRP board members before passing away. I was looking forward to work under the wise guidance of Dave, whom I had known since 1987. I had to step into the Vice President position followed by President's office earlier than planned due to the loss of my dear friend, Dave Dornfeld. Professor Don Lucca and Professor Didier Dumur have been elected as Vice President and Vice President-elect, respectively, at the General Assembly held in Portugal. My predecessor, Professor Ekkard Brinksmeier, continues to share his experience as a member of our board; Professor Bert Lauwers serves as the Technical Secretary; and Professor Dumur continues to serve as our Secretary General. Chantal and Agnes, who are running our Paris Office, continue to provide outstanding support.



We congratulate Professor Goran D. Putnik for hosting the 66th CIRP General Assembly at the historic city of Guimarães, Portugal. The General Assembly was well organized and well attended. Professor Emanuele Carpanzano and Swiss colleagues have already planned the 67th General Assembly in Lugano like a Swiss Watch! We look forward to seeing you all in Switzerland.

CIRP has been increasing its impact not only on manufacturing technology but also on the policies and research directions globally. Our Fellows and Associate Members are globally recognized scientific leaders with strong influence on manufacturing research, education, industry, journals and government policies. The higher the academic and technological excellences the CIRP members exhibit, the stronger the CIRP will be so that we can all be proud of our academy. Currently, CIRP has 159 Fellows, 19 Honorary Fellows, 138 Associate Members, 128 Emeritus Fellows, 168 Corporate Members and 114 Research Affiliates. We are operating close to the limit of CIRP capacity, but CIRP has been receiving more Associate and Research Affiliate Membership applications than CIRP can accommodate. The nominations committee has a difficult task in ranking excellent applicants based on academic excellence and proven research record. The Associate Members are expected to actively publish and present their independent research in person in Volume 1 of the CIRP Annals, regularly attend CIRP meetings, and serve on CIRP committees. The pressure of expanding CIRP Membership and oversubscription of Paris attendance is challenging. The Board and Council are studying the possible solutions.

CIRP Annals are the most used reference in the research, where our members publish their new, pioneering ideas first ahead of other journal venues. Keynote papers are our flagship publications and used by all researchers as the main reference in the related field worldwide. With the help of STC Officers, CIRP Editorial Committee and the council; CIRP will continue to improve the quality of keynote papers at the highest level possible.

The Board receives ideas and suggestions from individual members frequently, and we try to respond to them as much as possible. CIRP policy recommendations are best raised and discussed in STCs first, where the officers can bring the collectively debated proposals to the board and council for further action. CIRP is governed according to the policies approved by the General Assembly, and the new policy changes are discussed extensively by the Board and Council before tabling them to the General Assembly.

The Board and Council members and I look forward to serve you as best as possible.

My best regards,

Yusuf Altintas
President of CIRP 2016-2017

From the editor

Dear CIRP colleagues,

It is a pleasure to present the next CIRP newsletter. Besides the well used CIRP website (www.cirp.net), the newsletter brings any kind of news from CIRP members and for CIRP members.

All kind of news (news from members, awards, books written by members,...) relevant for our CIRP academy, is always welcome. Input can be sent to the CIRP office (cirp@cirp.net) or directly to me (bert.lauwers@kuleuven.be).



Bert Lauwers
CIRP Technical Secretary

News about Members

Professor Jian Cao received the 2016 SME Frederick W. Taylor Research Medal



Professor Jian Cao has been recognized with the SME Frederick W. Taylor Research Medal for her pioneering research on innovative manufacturing processes with significant contributions in integrating material characterization with sensing and control for forming and laser-assisted processing of sheet metals and woven composites. The Taylor Medal was awarded to Prof. Cao on May 15, 2016 during the International Awards Gala held in Orlando, USA. Cao is the first woman to receive the prestigious research award since it was established in 1957.

Jian Cao received her Ph.D. from M.I.T., and her dual-BS degree from Shanghai Jiao Tong University. Dr. Cao is currently a Professor of Mechanical Engineering, Director of Northwestern Initiative for Manufacturing Science and Innovation, and an Associate Vice President for Research at Northwestern University. She has a courtesy appointment at Argonne National Laboratory as a Senior Institute Fellow. During her tenure at Northwestern, she took a one-year leave at General Motors and a two-year leave at the National Science Foundation as a program director. An elected Fellow of CIRP, SME, and ASME, Cao has been recognized by honors and awards given by her peers in the field of manufacturing, applied mechanics and control, including the ASME Blackall Machine and Age Award, ASME Applied Mechanics Division Young Investigator Award, NSF CAREER Award, and ASME's Outstanding Young Manufacturing Engineer Award. Prof. Cao is the founding Technical Editor for the ASME Journal of Micro- and Nano-Manufacturing, which was recently indexed by Thomson Reuters. She served as President of the SME/NAMRI and Chair of ASME Manufacturing Engineering Division, and is currently the Vice Chair of STC-F.

Professor Bob Hahn celebrated his 100 year birthday

Professor Bob Hahn recently celebrated his 100 year birthday. In 1963, the American delegation hosted CIRP, in Cincinnati and Pittsburg, where he was the treasurer for the meeting. Within CIRP, he was strongly active in STC G (grinding technology) and published also a number of scientific/technical papers (CIRP Vol 1. & 2). He also contributed to the book "Forty years of CIRP", giving the history of CIRP from 1951 till 1991. He is author of the well known book "The handbook of modern grinding technology".

Chris Brown states "Bob worked with us on grinding work at WPI a few years ago. He generously gave us his control-force grinding machine. With him we did some interesting work on dressing which I reported to STC-G in Warsaw. At that time I was amazed to see how many people wanted me to say hello to Bob for them".

Robert Hahn receives citation

OAKHAM – Robert Hahn of Oakham recently celebrated his 100th Birthday with a party attended by his many friends and his family. The party was hosted by his dear friend Linda Zalatores. State Sen. Anne Gobi was on hand to present Dr. Hahn with a citation from the State of Massachusetts.

"Bob" is a well-known member of the community who still keeps his small farm with rescue horses and a large vegetable garden. His friends were somewhat surprised to see the display of his many US Patents and Engineering Awards. He is a mem-

ber of the Society of Manufacturing Engineers and the American Society of Mechanical Engineers. He spent most of his professional career at the Heald Machine Co. in Worcester as an engineer and as an Adjunct Professor at Worcester Polytechnic Institute. He is the author of "The Handbook of Modern Grinding Technology."

Turley Publications Submitted Photo
State Sen. Anne Gobi (D-Spencer), left, presents Robert Hahn of Oakham a citation for the state legislature. He turned 100 Nov. 1.



Turley Publications Photos by Robert Pierce
Robert Hahn of Oakham turned 100 Nov. 1, 2016. Selectman Elliot Starbard presented him with a certificate from the Oakham Board of Selectmen Monday, Oct. 31 at the Oakham Senior Center.

ROBERT HAHN TURNS 100



Robert Hahn is show with other seniors at the Oakham Senior Center.

OAKHAM – Robert "Bob" Hahn celebrated his 100th birthday Nov. 1. The Oakham Senior Center hosted a party for him Monday, Oct. 31. He attends the senior center on Mondays and keeps busy caring for a rescue horse.

CIRP Awards

F.W. Taylor Medal 2016

As an incentive for scientific work, CIRP has instituted the Frederick Winslow Taylor Medal of CIRP - a distinction for young scientists.

Candidates for the award must have personally presented their research at a Paper Session during the two years preceding their nomination. Recipients are not to be over 35 years of age in the year of the presentation of their paper.

The F.W. Taylor Medal 2016 has been awarded during the General Assembly (Guimarães, Portugal) to Dr. Qing Yin, upon the proposal of Professor Matthias Kleiner. He presented a paper on “Determining cyclic flow curves using the inplane torsion test” at the STC-F during the CIRP General Assembly in Cape Town, in 2015.

The paper includes an analytical, numerical and experimental methodologies for measuring material properties. An outstanding feature of the new methodology is that a single specimen and a single loading leads to virtually infinite loading-reversals at predefined plastic strains including high strains where large amount of data is generated within less than a minute. The originality is in the adaptation of the previous tests, and demonstration of its efficiency in characterizing kinematic hardening. He developed an analytical model that describes the experimentally observed phenomena very well.

Dr. Yin currently holds the position of calculation engineer for crash analysis at Volkswagen Osnabrück GmbH, Germany. In 2014, he obtained PhD from TU Dortmund. Prior to his paper in the CIRP Annals in 2015, he had published 5 Journal papers and 4 conference papers and was first author on all but 2 journal papers.

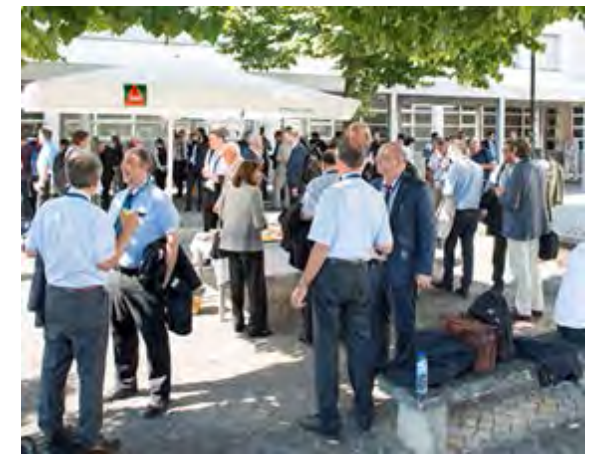


*Taylor Medal Award ceremony
(Prof. E. Brinksmeier (left), Dr. Q. Yin (right))*

General Assembly 2016: A Photo Reportage

The General Assembly 2016 (Portugal) has been attended by 600 attendants, including 80 accompanying persons. Thanks to the Portuguese delegation for the excellent organisation.

The opening ceremony, paper & technical sessions,...



Social Events – Bringing people together in a nice atmosphere



The Accompanying Persons Program

(by Catherine Dumur)

Monday, 22nd August



Ducal Palace of Bragança (Paço dos Duques de Bragança)



Guimarães Santa Marinha Monastery

Tuesday, 23rd August



The Casa dos Biscaínhos



Palace of Raio
Portuguese architect André Soares, notable for his influence in the northern Baroque movement

Wednesday, 24th August



Museum "Museu da Cultura Castreja"



Archaeological ruins of Citânia de Briteiros



Guimarães:Textile factory
"Also the accompanying persons are interested in manufacturing engineering" (note editor)

Thursday, 25th August



Ponte de Lima, Roman bridge



Belvedere Santa Luzia



Viana do Castelo



Costumes museum

Friday, 26th August



The Music Hall (Casa da Música)



Port wine caves, in Vila Nova de Gaia

ELECTIONS by the General Assembly 2016

New Fellows

- Prof. D. Biermann (Germany)
- Prof. S. Bruschi (Italy)
- Prof. P. Butala (Slovenia)
- Prof. R. Gao (USA)
- Prof. S. Newman (UK)
- Prof. H. Suzuki (Japan)

Honorary Fellow

- Prof. M. Santochi (Italy)

Fellows (Emeritus)

- Prof. K. Bouzakis (Greece)
- Prof. G. Seliger (Germany)

New Associate Members

- Dr. A. Beaucamp (Japan)
- Dr. A. Donmez (USA) / Corporate
- Dr. G. Erdős (Hungary)
- Dr. A. Ghiotti (Italy)
- Dr. T. Hara (Japan)
- Prof. T. Kuboki (Japan)
- Prof. R. Leach (UK) / Former Corporate
- Prof. T. Sakao (Sweden)
- Prof. K. Tracht (Germany)
- Dr. W. Wits (Netherlands)

New Corporate Members

- ASML, Netherlands
- ETA (Swatch group), Switzerland
- The Grinding Doc, USA
- IHI Corporation, Japan
- TIZ Implements, Poland
- Starrag AG, Switzerland
- Swerea IVF, Sweden
- Shenyang Blower Works Group, China
- Daimler, Germany
- Chengdu Aircraft Industrial Group, China
- United grinding group, Switzerland
- Makino, USA

New STC Chairmen

- STC A J. Sutherland
- STC E P. Bartolo
- STC F J. Cao
- STC O J. Vancza
- STC C E. Savio

Conferences & Papers

Our Conferences

For the **most recent overview** of our coming conferences go to “EVENTS” → CIRP

Conferences: www.cirp.net/meetings-conferences/conferences/cat.listevents/2016/10/18/-html

Future Keynote Papers

Our keynote papers are the result of an intensive collaboration between specialists working together during several years within an STC. They are important state of the art papers on important (new) technological areas. CIRP members who are willing to contribute are invited to contact the coordinator of each keynote paper.

2017 Keynote Papers

(no more contribution is possible at this time)

STC A

Innovative Control of Assembly Systems and Lines - Jörg Krüger (2) et al - Contact: joerg.krueger@iwf.tu-berlin.de

STC C

Advances in Material and Friction data for Modeling of Metal Machining - S. Melkote (2), W. Grzesik (2), J. Outeiro (2), J. Rech, V. Schulze (2), H. Attia (1), R. M'Saoubi (1) P. Arrazola (2), et al - Contact: shreyes.melkote@me.gatech.edu

STC Dn

Design for Reduced Resource Consumption during the Use Phase of Products - L.H Shu (1), Joost Duflou (1) + contributions - Contact: shu@mie.utoronto.ca

STC E

Materials for Additive Manufacturing – D. Bourell (2), J.-P. Kruth (1), M.C. Leu (1), G. Levy (1), D. Rosen, A. Beese, A. Clare - Contact: dbourell@mail.utexas.edu

STC F

Hot stamping of ultra-high strength steel parts - K.I. Mori (1) et al - Contact: mori@plast.me.tut.ac.jp

STC G

Recent Developments in Grinding Machines - K. Wegener (2), C. Brecher (1), F. Bleicher (3), G. O'Donnell (2), P. Krajnik (2) - Contact: wegener@iwf.mavt.ethz.ch

STC M

Fluid Elements in Machine Tools - K. Wegener (2), J. Mayr - Contact: wegener@iwf.mavt.ethz.ch

STC O

Learning Factories for Future Oriented Research and Education in Manufacturing – E. Abele (1), G. Chryssolouris (1), W. Sihn (1), J. Metternich, H. ElMaraghy (1), G. Seliger (1), G. Sivard, W. ElMaraghy (1), V. Hummel, M. Tisch, S. Seifermann - Contact: abele@ptw.tu-darmstadt.de

STC P

Contributions of Precision Engineering to the "New SI" - H. Bosse (3), A. Balsamo (1), I. Robinson, M. de Podesta, H. Kunzmann (1), P. Shore, J. Pratt, S. Schlamminger, P. Morantz - Contact: Harald.Bosse@ptb.de

STC S

Nanomanufacturing - perspective and applications - F.Z Fang (1), X. Zhang, W. Gao (1), Y.B. Guo (2), G. Byrne (1), H. Hansen (1) - Contact: fzfang@tju.edu.cn

Cross-STCs

Laser Based Additive Manufacturing in Industry and Academia - M. Schmidt (2), M. Merklein (2), D. Bourell (2), D. Dimitrov (3), T. Hausotte, K. Wegener (2), L. Overmeyer (2), F. Vollertsen (1), G. Levy (1) - Contact: Michael.Schmidt@fau.de

Cross-STCs

Design, Management and Control of Demanufacturing / Remanufacturing Systems” - T. Tolio (1), A. Bernard (1), M. Colledani (2), S. Kara (1), G. Seliger (1) - Contact: tullio.tolio@polimi.it

2018 Keynote Papers proposals

STC A

Life Cycle Engineering of Light Weight Structures - C. Herrmann (2) et al - Contact: c.herrmann@tu-braunschweig.de

STC C

Deep Hole Drilling - D. Biermann (2), F. Bleicher, U. Heisel (1), F. Klocke (1), A. Shih (2) - Contact: Biermann@isf.de

STC Dn

Tolerancing and Design under Uncertainty - Edward Morse (3), Jean-Yves Dantan (2), Nabil Anwer, Rikard Söderberg (2), Giovanni Moroni (2), Luc Mathieu (1), and other contributors - Contact: emorse@uncc.edu

STC E

Advances in Laser Machining Process (tentative)

STC F

Flexibility in Forming - D.Y. Yang (1), M. Bambach - Contact: dyyang@kaist.ac.kr

STC G

Abrasive Machining of Non-Metallic Materials - A. Shih (2), D. Curry, B. Denkena (1), T. Glove, H. Hong, H.-Y. Tsai, H. Ohmori (1), K. Katahira (2), Z.J. Pei, C. Guo - Contact: shiha@umich.edu

STC O

Value Creation in Production: Reconsideration from Interdisciplinary Approaches - T. Kaihara (1), N. Nishino (2), K. Ueda (1), M. Tseng (1), J. Vancza (1), P. Schönsleben (2), R. Teti (1) - Contact: kaihara@kobe-u.ac.jp

STC P

Geometrical Modeling and Traceability for Computationally-Intensive Precision Engineering or Metrology - J.-M. Linares (1), G. Goch (1), A. Forbes, J.-M. Sprauel, A. Clement (1), F. Härtig, W. Gao (1) - Contact: jean-marc.linares@univ-amu.fr

STC S

Multi-scale Analyses and Characterizations of Topographies and their Applications – C. Brown (2), H.N. Hansen (1), J. Jiang (1), F. Blateyron (3), J. Berglund (3), N. Senin, M.K. Thompson – Contact: brown@wpi.edu

Cross-STC

Composite Material Parts Manufacturing – J. Fleischer (1) - Contact: juergen.fleischer@kit.edu

2019 Keynote Papers proposals

STC A

Symbiotic Human-Robot Collaborative Assembly - L. Wang (1) et al. - Contact: lihuiw@kth.se

STC E

Realtime Process Monitoring of Manufacturing Processes (*tentative*)

STC G

Micro Abrasive Processes - J. Aurich (1) - Contact: aurich@cpk.uni-kl.de

STC M

Robots in Machining - A. Verl (2) - Contact: alexander.verl@isw.uni-stuttgart.de

STC O

Global Production Networks - G. Lanza (2) et al - Contact: gisela.lanza@kit.edu

STC P

Dimensional Metrology for Metal Additive Manufacturing - R.K. Leach (2), D. Bourell (2), S. Carmignato (2), W. Dewulf (2), H. Hansen (1) - Contact: richard.leach@nottingham.ac.uk

STC S

On-machine and in-process surface metrology for precision manufacturing – W. Gao (1), H. Haitjema (2), Y.L. Chen, F.Z. Fang (1), R.K. Leach (2), C.F. Cheung (2), E. Savio (2), J.M. Linares (1) - Contact: gaowei@cc.mech.tohoku.ac.jp

Cross-STCs

Advanced Manufacturing for Enhancing the Performance and Functionality of Tooling for Metal Forming - J. Cao (1) et al. - Contact: jcao@northwestern.edu

2020 Keynote Papers proposals

STC P

Physical artefacts (material measures) for establishing traceability in dimensional metrology - *L. De Chiffre (1), S. Carmignato (2), H. Bosse (3), R.K. Leach (2), A. Balsamo (1), W.T. Estler (1)*, - Contact: ldch@mek.dtu.dk

Cross-STCs

Self-Optimizing Machining Systems – *H.C. Möhring (2), P. Wiederkehr, K. Erkorkmaz (1), Y. Kakinuma (2)* - Contact: hc.moehring@ovgu.de

From the Editorial Committee

S. Smith (Chairman)

I am happy to report that thanks to the efforts of all of the members of the academy, quality of our publications remains very high. During the 2016 review cycle for the Annals, the 14 members of the Editorial Committee and Chair and vice-Chair of each STC Board reviewed 277 papers, compared to 276 during the 2015 review cycle, and 272 during the 2014 review cycle.



The 2016 EC review in progress

The review process has multiple layers that help ensure the quality of our flagship publication:

1. Only members of the academy are permitted to propose or sponsor papers. Members may only submit one paper, except for cooperative work. Members are recognized experts in their fields, and they have been elected to the academy based on their technical expertise. They should not submit, or allow to be submitted under their sponsorship, a paper that does not meet the high standards of the Annals.
2. Each paper was checked for original content using iThenticate, and the scores are shared with the members of the Editorial Committee and with the relevant STC Board.
3. Each submitted paper is independently reviewed by the Chair and Vice-Chair of the relevant STC Board prior to the start of the Editorial Committee meeting in Paris. The Chair and vice-Chair make comments, and indicate “Accept”, “Doubtful”, or “Reject”. They also independently rank the papers from best to least best. These reviews and rankings are not shared between the Chair and Vice-Chair, and they are not shared with the Editorial Committee Members. The Chair and vice-Chair do not see reviews from other STCs. The Chair and vice-Chair do not review their own papers, and they generally do not review each other’s papers. These reviews are combined into a recommendation from the STC Board.
4. Each submitted paper is independently reviewed by at least 2 members of the Editorial Committee. Members of the Editorial Committee cannot see the reviews of other Editorial Committee members, and they cannot see the reviews from the STC Boards until after the Editorial Committee reviews are finished. The members of the Editorial Committee make comments, and indicate “Accept”, “Doubtful”, or “Reject”. If the 2 Editorial Committee reviewers are in conflict about the paper (one says “Accept” and one says “Reject”), then a third reviewer from the Editorial Committee is included. These results are combined into a recommendation from the Editorial Committee.

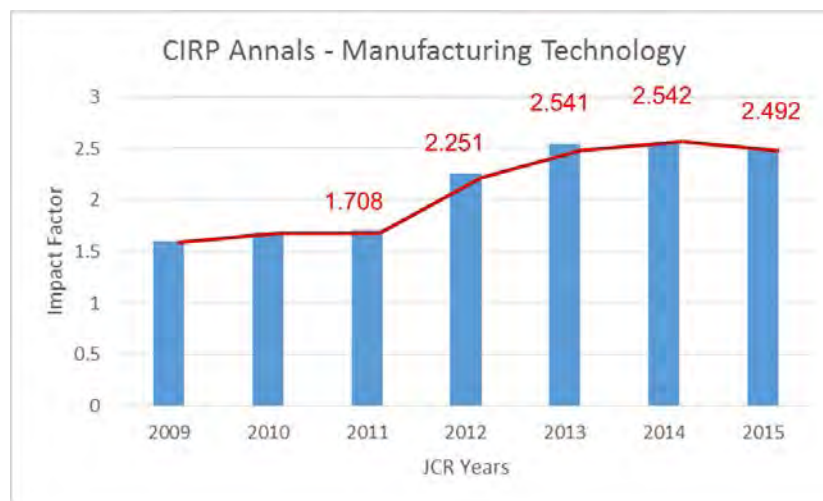
5. The final decision about the acceptance or rejection of a paper is made in during the Joint Program Committee meeting. At this time, any conflicts between the Editorial Committee and the STC Boards are resolved, and any transfers of papers between STC's are settled. Papers are either accepted (pending minor changes) or rejected. There is no opportunity for major revision.
6. The Chair of the STC is responsible to verify that the minor revisions for accepted papers are properly completed.

Decisions about acceptance of papers are made solely on the technical merits. The number of available presentation slots, balance between STCs, geographic distribution or other such factors are not considered.

This year, the 277 submitted papers required 1,108 independent reviews, not counting third reviewers from the Editorial Committee. Each member of the Editorial Committee reviewed about 40 papers, not counting third reviews. In addition, this year there were 12 keynote papers: 1 from each of 10 STC's, and 2 cross-STC keynotes. Each keynote paper received 2 reviews from the EC, plus the multiple reviews in the STC meetings. The 2016 acceptance rate was 49.8%, about the same as in 2015.

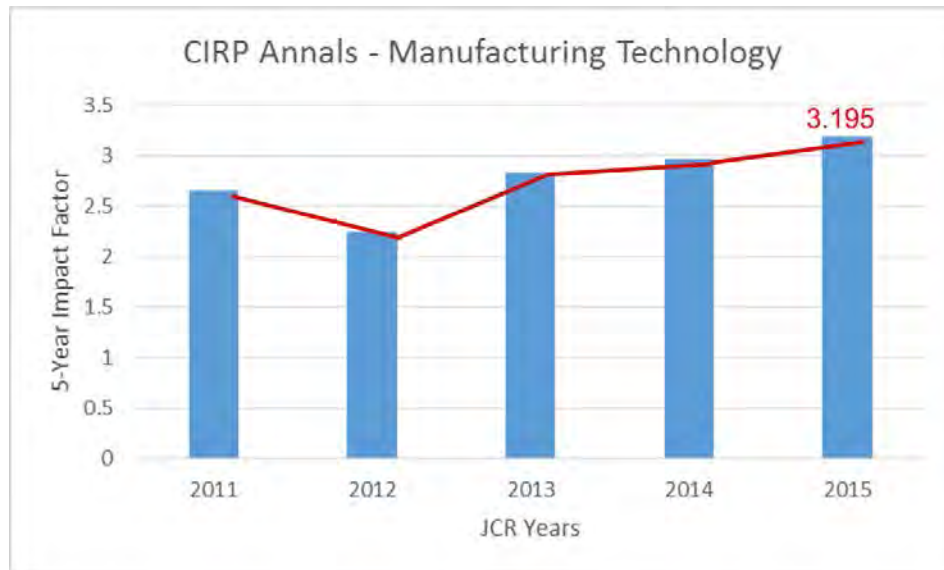
While the review process is rigorous, it is clear that the result is very positive. The impact factor for 2015 (the most recent data available) was 2.492, which is very good (see figure below). The impact factor may be saturating at this very strong level. According to Google Scholar (http://scholar.google.com/citations?view_op=top_venues&hl=en&vq=eng_manufacturingmachinery), the h5-index of the Annals at 46 is the second highest of any publication in the Manufacturing and Machinery category. The 2015 impact factor excluding self-citations was 2.106, compared to 1.942 in 2014.

Of the top 20 most cited papers, 15 were keynotes.



CIRP Annals historical impact factor

The 2015 five year impact factor is an impressive 3.195, up slightly from 2014. The cited half-life is 8.7 years, indicating lasting importance of our publications.



CIRP Annals historical 5-year impact factor

The number of downloads from the Annals also continues to be impressive. The 2015 downloads exceeded 500,000 again, and the 2016 downloads (only ½ year of data available) are on track for another strong year. The 2015 Procedia CIRP downloads surpassed 700,000, (compared to about 400,000 in 2014) and the year-to-date 2016 downloads are on track to significantly surpass that level.

This year we bid farewell to 4 members of the Editorial Committee, N. Duffie, M. Hauschild, B. Lauwers, and D. Lucca. I want to thank them personally, and on behalf of the academy for their many years of service. I am also pleased to welcome 4 new members to the Editorial Committee, D. Axinte, J. Duflou, S. Kara, and R. Roy. Along with continuing members S. Smith (Chairman), E. Tekkaya (Vice-Chairman), D. Brissaud, B. Denkena, C. Evans, M. Kunieda, M. Nakao, J. Oliveira, T. Tolio, D-Y. Yang, they comprise the Editorial Committee for the 2017 review cycle.

From the Research Affiliates

(by Petra Wiederkehr, Chair Research Affiliates)

On behalf of the Research Affiliates (RAs), it is a great pleasure for me to give a brief update of the RA activities. We had an eventful year 2016 with our Annual Workshop in Sweden, our RA meetings during the General Assembly (GA) and the 5th CIRP Global Web Conference.

At the moment, we are 114 Research Affiliates coming from 26 different countries. The RAs are not only an international, but also a highly interdisciplinary network since the interests of the different RAs cover the whole STCs. In order to give enough room for intensive discussions for building up personal new collaborations and for developing new ideas for international collaborative projects, we introduced **poster sessions** and **mini-workshops** during our meetings. During the GA in Guimaraes, we addressed, e.g., “Industry 4.0” as main topic in our mini-workshop. Here we had inspiring short presentations leading to intensive discussions in smaller groups afterwards. Furthermore, we are establishing an **Expertise Atlas** to build up a powerful tool which can be used to easily find interested research partners.

Looking at the activities of the last half year, we had an excellent **Annual RA Workshop** in Stockholm, Sweden. The workshop was hosted by the KTH and was very well organized by Antonio Maffei (current RA) and his team as well as Mikael Hedlind (former RA, CIRP Corporate Member). We had an inspiring workshop about “Constructive alignment of course design in higher education”, an impressive visit to Scania and a wonderful social event at the Vasa Museum.

Another highlight of the RA activities in 2016 was the **5th CIRP Global Web Conference** (CIRPe 2016) about “Research and Innovation for Future Production”. The conference was mainly organized by Kosmas Alexopoulos and his team from the University of Patras, Greece, who was supported by Erdem Ozturk und Candice Majewski. The CIRPe Conference started in 2012 with around 20 papers. In this year, we enjoyed 51 presentations broadcasted during three conference days.

During the CIRP Winter Meeting 2017 in Paris, I will resign after being the RA Chair for two years and we will vote for a new board. It was a great time for me and I would like to thank all of you for your excellent collaboration.



CIRP General Assembly 2016: Research Affiliate meeting and dinner

From the CIRP Office



Chantal Timar-Schubert

Annals papers/keynote papers submissions follow up, CIRP meetings, CIRP Website, candidatures for Membership, Internal Regulations and any internal information.



Agnès Chelet

Financial aspects: accountancy, membership fees, page charges, conferences sponsorships, Winter meetings registrations + Agendas & Minutes of the scientific meetings

News

- All information and registration to the next CIRP Winter Meeting is ready online on the Website(through “EVENTS”): <http://www.cirp.net/meetings-conferences/winter-meetings.html>
- We remind Fellows, Honorary Fellows and Fellows (Emeritus) that they can propose candidates for the 2017 General Nicolau Award up to December 1st. Rules have been updated here under in Art.22.

Updated CIRP Regulations

Please read online the new modifications to the Internal Regulations (through the button “About CIRP”) voted at the last General Assembly held in Guimaraes, Portugal. Modifications were made on the following articles:

- Article 5 - Fellow membership: <http://www.cirp.net/about-cirp/internal-regulations/649-ir-art-5.html>
- Article 6 - Associate membership: <http://www.cirp.net/about-cirp/internal-regulations/650-ir-art-6.html>
- Article 24 - Research Affiliates: <http://www.cirp.net/about-cirp/internal-regulations/651-ir-art-24.html>
- Creation of Appendix 14: guidelines for listing publications in Nomination Forms: <http://www.cirp.net/about-cirp/internal-regulations/939-ir-app14.html>
- Article 22 - Nicolau Award: <http://www.cirp.net/about-cirp/internal-regulations/556-ir-art22.html>
- Article 13 - to Host a GA, a Memorandum of Understanding (MOU) has been added: <http://www.cirp.net/about-cirp/internal-regulations/577-ir-art13.html>

With kind regards,

Chantal

Future CIRP Meetings

| Winter Meetings | General Assemblies |
|----------------------------|--|
| 15-17 February 2017, Paris | 20–26 August 2017, Lugano, Switzerland |
| 21-23 February 2018, Paris | 19–25 August 2018, Tokyo, Japan |