

USA – EU – Far East - Serbia**Conference****Advanced Manufacturing as the Foundation for a Successful Society – Challenges and Opportunities for Advanced-industrialization of Serbia / Horizon 2020/2030 –****INDUSTRY 4.0****Support by the Government of Serbia**

with collaboration of most highlevel domestic and international institutions/organisations and experts/persons

Moto: Think and learn globally, act locally !

Date: 30th May – 3rd June, 2016, Belgrade, SERBIA.

Main topic: [Advanced Manufacturing Research, Practices and Opportunities in Serbia – Horizon 2020/2030 – INDUSTRY 4.0](#)

Objective: White paper on main topic !

The main objective of this Conference will be gather leading experts on advanced manufacturing from leading universities and companies around the world in order to learn useful lessons, as well as identify key strengths, weaknesses, opportunities and threats (SWOT) for the development of innovative, modern manufacturing industries in Serbia.

The invitees will include policy makers, company managers, as well as representatives of industrial associations and academia from the US, Europe and Asia.

The main outcome of the conference will be a **white paper** by the conference organizers and willing contributing conference participants in which lessons learnt will be compiled, findings of the SWOT analysis will be summarized, and a tentative, but clear roadmap for advancement of manufacturing in Serbia in the next several decades will be offered.

Conference Organisation:

Working part of the conference will consist of 3 days. During the first day, the Conference will consist of a series of invited presentations, lectures and panels on

various aspects of manufacturing research and practices, offered by top international experts from industry and academe. During the second day of the Conference, a working group of conference organizers and volunteers will focus on the SWOT analysis for the development of innovative, modern manufacturing industries in Serbia (half day SWOT analysis, half day report writing). In parallel, interested conference participants and guests will have an opportunity to attend panels on latest manufacturing research, visit the Department of Mechanical Engineering of the University of Belgrade or tour the city of Belgrade. During the third day, the working group that conducted the SWOT analysis on day 2 will focus on producing a manufacturing roadmap document that will be presented to the Government of the Republic of Serbia (half day discussions, half day report writing). The idea is that this roadmap document will be revisited and updated regularly after conferences of similar scale are held in Belgrade every 2 years.

Conference chair: Prof. Dr. Jun Ni, *College of Engineering, University of Michigan, Ann Arbor, MI 48109, USA.*

<https://me-web2.engin.umich.edu/pub/directory/bio?uname=junni>

Conference co-chairs:

1. **Prof. Dr. Dragan Djurdjanovic**, *Department of Mechanical Engineering, University of Texas, Austin, TX, USA.*

<http://www.me.utexas.edu/directory/faculty/djurdjanovic/dragan/177/>

2. **Prof. Dr. Vidosav Majstorovic**, *Belgrade University, Mechanical Engineering Faculty, Belgrade, Serbia;*

<http://www.mas.bg.ac.rs/fakultet/nastavnici/95>

Panelists:

Panelists from USA (invited):

1. **Prof. Dr. Kornel Ehmman**, *Northwestern University, Evanston.*

<http://www.mccormick.northwestern.edu/research-faculty/directory/profiles/ehmann-kornel.html>

2. **Dr. Mani Janakiram**, *Director of Supply Chain Strategy & Analytics, Intel Corporation.*

<http://scale.mit.edu/mani-janakiram>

3. **Dwight Carson**, *President and CEO of Coherix.*

<http://www.coherix.com/thickboxpages/profile.asp?id=4>

4. **Prof. Dr. Joe Beaman**, U of Texas at Austin.

<http://www.me.utexas.edu/directory/faculty/beaman/joseph/4/>

5. **Prof. Dr. Jay Lee**, U of Cincinnati and Shanghai Jiao Tong University.

<http://www.min.uc.edu/me/people/resume/dr-jay-lee>

6. **Dr. Benjamin Eynon**, Samsung USA.

<https://www.linkedin.com/pub/ben-eynon/2/a54/aa5>

Panelist from EU (invited):

1. **Prof. Dr. Laszlo Monostori**, Hungarian Academy of Science, Budapest, Hungary. (*Cyber-Physical Manufacturing, Innovative Manufacturing*).

http://wwwold.sztaki.hu/sztaki/ake/ai/manufacturing/laszlo_monostori.jhtml

2. **Prof. Dr. Francesco Jovane**, Politecnico di Milano, Italy. (*National Strategy for Advanced Manufacturing*).

<http://www.mecc.polimi.it/en/research/faculty/faculty/prof-francesco-jovane-emeritus-professor/>

3. **Prof. Dr. Engelbert Westkaemper**, University of Stuttgart, Germany. (*Roadmap for Advanced Manufacturing 2015-2030*).

<http://www.manufuture2013.eu/programme-speakers/programme/93-main-menu-articles/programme-speakers/speakers-chairmen/241-prof-engelbert-westkaemper>

4. **Prof. Reijo Tuokko**, Tampere University, Finland. (*World Manufacturing Forum*).

<http://www.tut.fi/en/person-id-card/index.htm?nimi=reijo.tuokko; reijo.tuokko@tut.fi>

5. **Dr. Massimo Mattucci**, President Board of Directors EFRA, Brussels. (*EU FoF Program*).

<http://www.research-europe.com/index.php/2013/04/dr-massimo-mattucci-chairman-european-factories-of-the-future-research-association/>

6. **Prof. Dr. George Chryssolours**, University of Patras, Greece. (*Education for AM*)

http://www.mead.upatras.gr/lang_en/personnel/view/2;

7. **Prof. Dr. Fred van Houten**, University of Twente, Netherlands. (*Advanced Manufacturing – Design Aspects*)

<http://home.ctw.utwente.nl/houtenfjam/>;

8. **Prof. Dr. Günther Seliger**, *Produktionstechnisches Zentrum Berlin, Germany.* (*Service Manufacturing*)

https://www.mf.tu-berlin.de/menue/ueber_uns/mitarbeiter/

9. **Prof. Dr. Tullio Tolio**, *ITIA-CNR, Milano, Italy.* (*National vs EU Industrial Policy*)

https://www4.ceda.polimi.it/manifesti/manifesti/controller/ricerche/RicercaPerDocentiPublic.do?EVN_PRODOTTI=evento&n_docente=tolio&k_doc=1225&lang=EN&aa=2011&tab_ricerca=1&jaf_currentWFID=main

10. **Prof. Dr. Marco Taisch**, *President of IMS Association, Geneva.* (*World Intelligent Manufacturing Program*).

http://www.dig.polimi.it/index.php?id=316&tx_wfgbe_pi1%5Bid%5D=74
; marco.taisch@polimi.it

11. **Prof. Dr. Numan Durakbasa**, *TU Vienna, Austria.* (*Micro - nano manufacturing metrology*).

http://cec.tuwien.ac.at/key_facts/faculty/faculty_member/EN/?user_cecfaculty_pi1%5BshowUid%5D=872&cHash=9a37ca831e2274147eb22e2be0a26d50

12. **Prof. Dr. Rajkumar Roy**, *Cranfield University, UK.* (*UK Manufacturing Program*)

<https://www.cranfield.ac.uk/about/people-and-resources/academic-profiles/satm-ac-profile/professor-rajkumar-r-roy.html> ; r.roy@cranfield.ac.uk

13. **Prof. Alain Bernard**, *Ecole Centrale de Nantes, France* (*France Manufacturing Program*)

<http://www.ec-nantes.fr/version-francaise/pratique/annuaire/bernard-alain-5529.kjsp?RH=1211801321748>

14. **Prof. Dr. Dimitris Mourtzis**, *University of Patras, Greece.* (*Greece Manufacturing Program*)

http://www.mead.upatras.gr/lang_en/personnel/view/42

15. **Dr. Augusta Paci**, *CNR, Rome, Italy.* (*Italian Manufacturing Program*)

<http://www.attivitaeeuropee.cnr.it/staff> ; augustamaria.paci@cnr.it

16. Prof. Dr. Nikolae Dragulanesku, TU Bucharest, Romania (*Romanian Manufacturing Program*)

www.ndragulanesku.ro, nicudrag@yahoo.com, nicudrag@ymail.com

17. Prof. Dr. Emilia Assenova, TU Sofia, Bulgaria (*Bulgarian Manufacturing Program*)

www.bultrib.com ;

18. Prof. Dr. Mirko Sokovic, MEF, Ljubljana, Slovenia (*Slovenian Manufacturing Program*)

<http://www.fs.uni-lj.si/>

Panelist from EU Commission, Brussels (invited):

1. **Dr. Daniel Calleja**, *Director General of DG Enterprise and Industry.*

<http://ec.europa.eu/enterprise/dg/> ; <http://ec.europa.eu/research/index.cfm>;

2. **Francesca Flamigni**, *European Commission.*

http://cordis.europa.eu/ims/secretariat_en.html ; francesca.flamigni@ec.europa.eu

3. **Dan Nagy**, *IMS Inter-Regional Secretariat.*

4. **Roberta Salonna**, *European Commission.*

http://cordis.europa.eu/ims/secretariat_en.html;

5. **Dr. Erastos Filos**, *European Commission, DG Research and Innovation.*

<https://be.linkedin.com/pub/erastos-filos/11/ab9/a1b/en>;

6. **Dr. José Caldeira**, *EU Manufuture Program.*

<https://pt.linkedin.com/pub/jos%C3%A9-carlos-caldeira/9/81/3a1>

7. **Dr. Liviu Jalba**, *SEEC Manufuture Program.*

<http://microel.ro/en/>

Panelists from East Far (invited):

1. **Prof. Dr. Fumihiko Kimura**, *Hosei University, Tokyo, Japan. (Japanese national engineering design Program)*

http://kenkyu-web.i.hosei.ac.jp/Profiles/23/0002299/prof_e.html;

2. **Prof. Dr. Shozo Takata**, *Waseda University, Tokyo, Japan. (Japanese Manufacturing Program)*

http://www.takata.mgmt.waseda.ac.jp/english/e_index.html;

3. Professor Yasuhiro **TAKAYA**, *Osaka University, School of Engineering 2-1, OSAKA 565-0871, Japan (Advanced Manufacturing Metrology).*

http://www-optim.mech.eng.osaka-u.ac.jp/top_en.html ;

4. **Dr. Lim Ser Yong**, *Executive Director of Singapore Inst. of Manuf. Tech (SimTech)
(Manufacturing Lessons from Singapore – Education, Industry, Government)*

<http://www.a-star.edu.sg/simtech/>

Representative from Serbia (invited):

1. Prime Minister
2. Minister of Economy
3. Minister of Education, Science and Technological Development
4. President of Chamber of Commerce and Industry of Serbia
5. President of Chamber of Commerce and Industry of Belgrade
6. General Managers of top 20 Factories from Serbia
7. Representative from Belgrade, Novi Sad, Kragujevac and Nis University
8. Others (national/international relevant institutions-organizations from Serbia who are involved in main Conference topic)

Common themes / main topics:

- Manufacturing world-wide - Challenges and Opportunities
- International/national initiatives for manufacturing improvement

- Strategies for manufacturing on global/national level
- Advanced Manufacturing
- Reserach and education for manufacturing
- What we can to do ?
- Roadmap for AM in Serbia – **Industry 4.0 / Serbia Model.**

Draft Agenda of Conference:

Day 1: Lecturing and learning from the best in the world. Take global lessons. Hong-Kong is an example of launching advanced manufacturing (they did a workshop like this and are now acting upon recommendations from that Conference).

Day 2: SWOT analysis in the morning. Report writing in the afternoon (no need for everyone to be involved - this can be done by a few people, with strong knowledge of local environment). It would be good to have at least one government official in this. Someone who buys into what we are trying to do, believes in and understands the importance of HIGH TECH ADVANCED manufacturing

Day 3: Presenting to government officials (hopefully 30-60 minutes with the prime minister).

Welcome on AM Program Conference, June 2016, Belgrade.

Dean of Mechanical Engineering Faculty

Prof. Dr. Radivoje MITROVIC

Dec. 2015, Belgrade