

ASME MED Manufacturing Systems (MS) Technical Committee (TC)

Report for MSEC 2020

May 2020

A. Committee Membership

Number of Committee Members: Total: **72** (list in Appendix). Membership updated on May 14, 2020, based on the 4-year service rule established in 2008. Please note: Dates joined were not provided before 2016 by previous TC leadership.

New Members who joined in 2019: 17

George Smith (Magna Powertrain)
Yuqian Lu (University of Auckland)
Kira Barton (University of Michigan)
Miguel Saez (General Motors)
Joseph Sims (ASRDC)
Ahmed Azab (University of Windsor)
Thurston Sexton (NIST)
Sarah Lukens (GE Digital)
Melinda Hodkiewicz (Univ. of W. Australia)
Feng Ju (Arizona State University)
Cindy Chang (University of Virginia)
Mohsen Mosleh (Howard University)
Khosro Shirvani (Rowan University)
John Belk (ZeroTechnology)
Rui Liu (RIT)
Helen Qiao (NIST)
Patrick Spicer (General Motors)

Chair: Michael Brundage (NIST)

Vice-Chair: Hui Wang (FSU)

B. MSEC 2020

Number of Committee Members: Total: **72** (list in Appendix). Membership updated on May 14, 2020 based on the 4-year service rule established in 2008.

Chair: Michael Brundage (NIST)

Vice-Chair: Hui Wang (FSU)

The Manufacturing Engineering Division (MED) of ASME, the North American Manufacturing Research Institution of SME and The Japan Society of Mechanical Engineers (JSME) are pleased to co-sponsor the 2020 International Manufacturing Science & Engineering Conference (MSEC), the 48th North American Manufacturing Research Conference (NAMRC) and LEM&P (title name under review). The collocated conferences will be hosted by the University of Cincinnati, College of Engineering and Applied Science, on June 22 – 26, 2020, in Cincinnati, Ohio, USA.

MS TC received 12 symposium proposals for MSEC2020 (1 split with LCE, 1 split with Q&R). Still waiting on EC approval.

List of Symposia

Cognitive Manufacturing: Challenges, Technologies, and Applications			
	Yuqian Lu	University of Auckland	yuqian.lu@auckland.ac.nz
	Kira Barton	University of Michigan	bartonkl@umich.edu
	Miguel Saez	General Motors	miguel.saez@gm.com

Advances in Competitive Manufacturing Engineering (Sponsored with LCE)			
	Mohamed Gadalla	Alabama A&M	mohamed.gadalla@aamu.edu
	Joseph Sims	ASRDC	jsims@asrcfederal.com
	Ahmed Azab	University of Windsor	azab@uwindsor.ca

Advances in Human Systems Integration and Intelligence Augmentation in Manufacturing Systems			
	Thurston Sexton	NIST	Thurston.sexton@nist.gov
	Sarah Lukens	GE Digital	sarah.lukens@ge.com
	Melinda Hodkiewicz	Univ. of W. Australia	Melinda.hodkiewicz@uwa.edu.au

Smart Manufacturing System Modeling, Informatics, and Control			
	Feng Ju	Arizona State University	fengju@asu.edu
	Cindy Chang	University of Virginia	qc9nq@virginia.edu
	Jorge Arinez	GM R&D	Jorge.arinez@gm.com

Nanofluids for Lubrication and Thermal Management in Manufacturing			
	Mohsen Mosleh	Howard University	mmosleh@howard.edu
	Khosro Shirvani	Rowan University	khosro.a.shirvani@gmail.com
	John Belk	ZeroTechnology	ghbelk@gmail.com

Quality Assurance in Additive Manufacturing Systems: Sensing, Analytics, and Control			
	Prahalad Rao	University of Nebraska Lincoln	rao@unl.edu
	Olga Wodo	University of Buffalo	olgawodo@buffalo.edu
	Chi Zhou	University of Buffalo	chizhou@buffalo.edu

Internet and Digital Twins Technology for Smart Manufacturing			
	Xi Wang	KTH	wangxi@kth.se
	Xun Xu	University of Auckland	xun.xu@auckland.ac.nz
	Yujie Chen	Caterpillar	chen_yujie@cat.com

Advances in Modeling, Analysis, and Simulation of Manufacturing Systems for Optimized Throughput and Performance			
	Cary Zhang	Fiat Chrysler	cary.zhang@fcagroup.com
	Herman Tang	Eastern Michigan University	htang2@emich.edu

Advances in Quality, Reliability, and Continuous Improvement in Manufacturing Development and Execution (Split with Q&R TC)			
	Mike Smith	Magna International	mike.smith1@magna.com
	Herman Tang	Eastern Michigan University	htang2@emich.edu

Cyber-Physical Systems and Cybersecurity in Industry 4.0			
	Rui Liu	RIT	rleme@rit.edu
	Dazhong Wu	University of Central Florida	Dazhong.Wu@ucf.edu
	Helen Qiao	NIST	guixiu.qiao@nist.gov

Advancing Manufacturing Systems through Internet of Things, Data Analytics and Artificial Intelligence			
	Xiaoning Jin	Northeastern University	xi.jin@northeastern.edu
	Chenhui Shao	University of Illinois	chshao@illinois.edu
	Yujie Chen	Caterpillar	chenyujie711@gmail.com

Collaborative Robotic Assembly: Challenges and Opportunities for the Manufacturing Industry			
	Patrick Spicer	General Motors	patrick.spicer@gm.com
	Miguel Saez	General Motors	miguel.saez@gm.com
	Kira Barton	University of Michigan	bartonkl@umich.edu

Appendix. List of the 2019-2020 ASME MED Manufacturing Processes Technical Committee Members (Updated May 14, 2020)
Continuing Members

#	Name	Affiliation	Email	Date Joined
1	Zhenhua (David) Wu	Virginia State Univ.	zwu@vsu.edu	
2	Prahalad K. Rao	Binghamton Univ.	prao@binghamton.edu ;	
3	Vukica Jovanovic	Old Dominion Univ.	v2jovano@odu.edu	
4	Parikshit Mehta	Alcoa Inc.	parikshit.mehta@alcoa.com ;	
5	Rodrigo Cooper	Kennametal Inc.	rodrigo.cooper@kennametal.com ;	
6	Mathew Kuttolamadom	Texas A&M Univ.	mathew@tamu.edu	
7	Xiaoning Jin	Northeastern Univ.	xi.jin@northeastern.edu	
8	Weihong Guo	Rutgers Univ.	wg152@rutgers.edu	
9	John Wang	Ford Motor Company	hwang168@ford.com	
10	Xun Xu	University of Auckland	xun.xu@auckland.ac.nz	
11	Xi Vincent Wang	KTH Royal Institute of Tech.	wangxi@kth.se	
12	Nenad Ivezic	NIST	nenad.ivezic@nist.gov	
13	Dazhong Wu	Penn State	dxw279@psu.edu	
14	Janis Terpenney	Penn State	jpt5311@psu.edu	
15	Robert Gao	Case Western	Robert.Gao@case.edu	
16	Thomas Kurfess	Georgia Tech	kurfess@gatech.edu	
17	Li Zhang	GE	zhangli@ge.com	
18	Mike Brundage	NIST	michael.brundage@nist.gov	
19	Yang Li	Tongji Univ.	Yangmli@tongji.edu.cn	
20	Jorge Arinez	GM	Jorge.arinez@gm.com	
21	Shaw Feng	NIST	shaw.feng@nist.gov	
22	Prahalad K. Rao	SUNY Binghamton	prao@binghamton.edu	
23	Olga Wodo	SUNY Buffalo	olgawodo@buffalo.edu	
24	Chi Zhou	SUNY Buffalo	chizhou@buffalo.edu	2016
25	William Carter	Oak Ridge National Lab	carterwg@ornl.gov	2017
26	Brian Weiss	NIST	Brian.weiss@nist.gov	2017
27	Chandra Nath	Hitachi America, Ltd.	nathc2@asm.org	2017
28	Boonserm Kulvatunyou	NIST	boonserm.kulvatunyou@nist.gov	2017
29	Guoxian Xiao	General Motors R&D	guoxian.xiao@gm.com	2017

30	Cary Zhang	Fiat Chrysler Automobiles	cary.zhang@fcagroup.com	2017
31	Herman Tang	Eastern Michigan Univ.	htang2@emich.edu	2017
32	Chenhui Shao	Univ. of Illinois	chshao@illinois.edu	2017
33	Yujie Chen	Caterpillar Inc.	chenyujie711@gmail.com	2017
34	Steve Hsueh-Ming Wang	Univ. of Alaska – Anchorage	hswang@alaska.edu	2017
35	Chao-Chang A Chen	Taiwan Univ of Science and Technology	artchen@mail.ntust.edu.tw	2017
36	Bruce Tai	Texas A&M	btai@tamu.edu	2017
37	Ta-Hsin Chou	Industrial Technology Research Institute	TaHsinChou@itri.org.tw	2017
38	Bingbing Li	California State Univ	bingbing.li@csun.edu	2017
39	Chris Yuan	Case Western Reserve Univ	chris.yuan@case.edu	2017
40	Shaopeng Liu	General Electric Global Research	sliu@ge.com	2017
41	Xiaochun Li	Univ of California, Los Angeles	xcli@seas.ucla.edu	2017
42	Wei Li	Univ. of Kentucky	wei.mike.li@uky.edu	2017
43	Kozo Saito	Univ. of Kentucky	ksaito@uky.edu	2017
44	Ken Kreaflle	Toyota USA	ken.kreaflle@tema.toyota.com	2017
45	Dean Bartles	Univ. of New Hampshire	Dean.bartles@unh.edu	2018
46	Mohamed A. Gadalla	Alabama A&M Univ.	mohamed.gadalla@aamu.edu	2018
47	Sampson. Gholston	Univ. of Alabama Huntsville	gholsts@uah.edu	2018
48	Ahmed Soliman	Benchmark Electronics	ahmed.soliman@bench.com	2018
49	Hui Wang	Florida State Univ	hwang10@fsu.edu	2018
50	Xi Wang	KTH Royal Institute of Technology	wangxi@kth.se	2018
51	Lihui Wang	KTH Royal Institute of Technology	lihuiw@kth.se	2018
52	Dr. Eunhye Song	Penn State University	eus358@psu.edu	2018
53	Dr. Soundar Kumara	Penn State University	u1o@engr.psu.edu	2018
54	Dr. Peiling Wu-Smith	General Motors Global Research and Development	peiling.wu-smith@gm.com	2018
55	Dr. Wei Xie	Polytechnic Institute	xiew3@rpi.edu	2018
56	George Smith	Magna Powertrain	mike.smith1@magna.com/	2018
57	Yuqian Lu	University of Auckland	yuqian.lu@auckland.ac.nz	2019
58	Kira Barton	University of Michigan	bartonkl@umich.edu	2019
59	Miguel Saez	General Motors	miguel.saez@gm.com	2019
60	Joseph Sims	ASRDC	jsims@asrcfederal.com	2019
61	Ahmed Azab	University of Windsor	azab@uwindsor.ca	2019
62	Thurston Sexton	NIST	Thurston.sexton@nist.gov	2019
63	Sarah Lukens	GE Digital	sarah.lukens@ge.com	2019
64	Melinda Hodkiewicz	Univ. of W. Australia	Melinda.hodkiewicz@uwa.edu.au	2019

65	Feng Ju	Arizona State University	fengju@asu.edu	2019
66	Cindy Chang	University of Virginia	qc9nq@virginia.edu	2019
67	Mohsen Mosleh	Howard University	mmosleh@howard.edu	2019
68	Khosro Shirvani	Rowan University	khosro.a.shirvani@gmail.com	2019
69	John Belk	ZeroTechnology	ghbelk@gmail.com	2019
70	Rui Liu	RIT	rleme@rit.edu	2019
71	Helen Qiao	NIST	guixiu.qiao@nist.gov	2019
72	Patrick Spicer	General Motors	patrick.spicer@gm.com	2019