

# ASME MED Manufacturing Processes (MP) Technical Committee (TC)

## Report for MSEC 2020

June 6, 2020

### A. Technical Committee Membership

**Number of continuing TC Members: 39** continuing members (list in appendix). 3 members (highlighted in yellow) have not reported activities and, therefore, their committee membership is not renewed for another term. There are 12 potential new members (list in Appendix) and 7 recently retire members. Membership updated on June 2, 2020, based on the 4-year-service rule established in 2008.

**Chair (2018-2020):** Wayne Cai (GM R&D)

**Vice-Chair (2018-2020)/Chair (2020-2022):** Ihab Ragai (PSU-Erie)

**Vice Chair (2020-2022):** Jingjing Li (PSU-University Park)

### B. Update on MP TC Activities

#### 1. MSEC 2020

- MP TC received 14 symposium proposals of which 9 were approved and sponsored, and 3 others were moved to other TCs.

#### List of Approved Symposia (9)

1. **Advances in Nontraditional Manufacturing Processes (w/ Nano/Micro/Meso Mfg. TC)**
  - a. Dr. Murali Sundaram, [murali.sundaram@uc.edu](mailto:murali.sundaram@uc.edu)
  - b. Dr. Zhigang Wang, [kingzhigang@gmail.com](mailto:kingzhigang@gmail.com)
  - c. Dr. Muhammad P. Jahan, [jahanmp@miamioh.edu](mailto:jahanmp@miamioh.edu)
  - d. Dr. Meng Zhang, [meng@ksu.edu](mailto:meng@ksu.edu)
2. **Advances in Finishing Processes: Hard Machining, Grinding, and Abrasive Finishing**
  - a. Mr. Rahul Chaudhari, [rahul.chaudhari@timken.com](mailto:rahul.chaudhari@timken.com)
  - b. Dr. Changsheng Guo, [Changsheng.guo@utc.com](mailto:Changsheng.guo@utc.com)
  - c. Prof. Hitomi Yamaguchi, [hitomiy@ufl.edu](mailto:hitomiy@ufl.edu)
3. **Advances in Lightweight and Dissimilar Materials Joining**
  - a. Dr. Yongbing Li, email: [yongbinglee@sjtu.edu.cn](mailto:yongbinglee@sjtu.edu.cn)

- b. Dr. Xun Liu, [liu.7054@osu.edu](mailto:liu.7054@osu.edu)
  - c. Dr. Wayne Cai, [wayne.cai@gm.com](mailto:wayne.cai@gm.com)
- 4. Advances in Processing of Polymers and Polymer Composites (w/ Advanced Materials Mfg. TC)**
- a. Dr. Felicia Stan, [felicia.stan@ugal.ro](mailto:felicia.stan@ugal.ro)
  - b. Dr. Anasuya Sahoo, [sahoo017@umn.edu](mailto:sahoo017@umn.edu)
  - c. Dr. Fabrizio Quadrini, [fabrizio.quadrini@uniroma2.it](mailto:fabrizio.quadrini@uniroma2.it)
- 5. Advances in Assisted and Augmented Manufacturing Processes**
- a. Dr. Farbod Akhavan Niaki, [farbod.niaki@timken.com](mailto:farbod.niaki@timken.com)
  - b. Dr. Weilong Cong, [weilong.cong@ttu.edu](mailto:weilong.cong@ttu.edu)
  - c. Dr. Meng Zhang, [meng@ksu.edu](mailto:meng@ksu.edu)
- 6. Laser-based Advanced Manufacturing and Material Processing**
- a. Dr. Xin Zhao, [xzhao5@clemsn.edu](mailto:xzhao5@clemsn.edu)
  - b. Dr. Chang Ye, [cye@uakron.edu](mailto:cye@uakron.edu)
  - c. Dr. Wenda Tan, [wenda.tan@mech.utah.edu](mailto:wenda.tan@mech.utah.edu)
- 7. Advances in Metal Additive Manufacturing Processes (w/ Additive Mfg. TC)**
- a. Dr. Dong Lin, [dongl@ksu.edu](mailto:dongl@ksu.edu)
  - b. Dr. Ho Yeung, [ho.yeung@nist.gov](mailto:ho.yeung@nist.gov)
  - c. Dr. Wenchao Zou, [zhouw@uark.edu](mailto:zhouw@uark.edu)
- 8. Nanofluids for Lubrication and Thermal Management in Manufacturing (w/ Mfg. Systems TC)**
- a. Dr. Mohsen Mosleh, [mmosleh@howard.edu](mailto:mmosleh@howard.edu)
  - b. Dr. Khosro Shirvani, [khosro.a.shirvani@gmail.com](mailto:khosro.a.shirvani@gmail.com)
  - c. Mr. John Belk, [jhbelk@gmail.com](mailto:jhbelk@gmail.com)
- 9. Advances in Micro and Nano Manufacturing – Kornel Ehmann Symposium (w/ Nano/Micro/Meso Mfg. TC)**
- a. Dr. Ping Guo, [ping.guo@northwestern.edu](mailto:ping.guo@northwestern.edu)
  - b. Dr. Martin Byung-Guk Jun, [mbgjun@purdue.edu](mailto:mbgjun@purdue.edu)

c. Dr. Chandra Nath, nathc2@asme.org

## **2. MSEC 2021**

The 2021 ASME International Manufacturing Science & Engineering Conference (MSEC 2021) and the 49th North American Manufacturing Research Conference (NAMRC49) will be held at University of Cincinnati on June 21-25, 2021.

- MP TC will solicit symposium proposals shortly

ASME/MED Manufacturing Processes Technical Committee (MPTC) members (July 1, 2020- June 30, 2021)								
MEMBERS (Updated 6/2/2020) By IR								
	First Name	Last Name	Email	Affiliation	Area	Term	Latest ASME activity	Note
1	Ihab	Ragai	ifr1@psu.edu	Pennsylvania State University - Erie	Manufacturing processes	2024	2018 MSEC Symposium	2020-2022 Chair of MP TC
2	Jingjing	Li	ju572@psu.edu	Pennsylvania State University	Joining	2026	2016-2019 MSEC Symposium	2020-2022 Vice Chair of MP TC
3	Wayne	Cai	wayne.cai@gm.com	General Motors	Joining & Forming	2024	2016-2020 MSEC Symposium	2018-2020 Chair of MP TC
4	Amit	Bagchi	amit.bagchi@nrl.navy.mil	Naval Research Lab	Machining processes, rapid prototyping and tooling	2019	Leader of DMM Segment -2016	Leader of DMM Segment -2016
5	Jian	Cao	jcao@northwestern.edu	Northwestern University	Forming processes	2026	Editor-in-Chief, ASME/JMNM, 2012-2017	ASME TCPC (Technical Communication and Publication Committee), 2019 – 2022
6	Rahul	Chaudhari	rahul.chaudhari@timken.com	Timken.com	Machining	2021	2018 MSEC Symposium	
7	Hongqiang	Chen	chenhon@ge.com	GE	Laser processing	2024		Associate Editor, JMSE
8	Kevin	Chou	kevin.chou@louisville.edu	University of Louisville	Machining processes, additive manufacturing	2023	2016, 2017 MSEC Symposium	MED Executive Committee Chair (2018-19)
9	Edmund	Chu	chuew888@yahoo.com	Retired from Alcoa	Forming, simulation, material mechanics and product design	2020	2016 MSEC Symposium	
10	Weilong	Cong	weilong.cong@ttu.edu	Texas Tech	Intelligent Manufacturing	2022	2019 MSEC Symposium	
11	Hongtao	Ding	hongtao-ding@uiowa.edu	University of Iowa	Laser and energy field manufacturing	2020	2017 MSEC Symposium	
12	Alessandro	Fortunato	alessandro.fortunato@unibo.it	University of Bologna	Laser manufacturing	2021	2017, 2018 MSEC Symposium	
13	Ping	Guo	ping.guo@northwestern.edu	Northwestern University	Advanced Mfg	2022	2019 MSEC Symposium	
14	Moneer	Helu	moneer.helu@nist.gov	NIST	Advanced Mfg	2022		MED Executive Committee Treasurer (2018-19)
15	Andy	Henderson	andy.henderson@praemo.com	Praemo		2022	2019 MSEC Symposium	
16	Mark	Jackson	mijackson@ksu.edu	KSU - Salina	Machining and grinding	2022	2016 MSEC Symposium	2019 MSEC Early Career Forum vice-chair
17	Muhammad	Jahan	jahanmp@miamioh.edu	Miami University	Nontraditional Manufacturing Processes	2022	2019 MSEC Symposium	
18	Martin	Jun	mbgjun@purdue.edu	Purdue University	smart manufacturing, machining, laser machining, micro-manufacturing	2022	2018-2019 MSEC Symposium	
19	Brad	Kinsey	bkinsey@unh.edu	University of New Hampshire	Forming	2021	2018 MSEC Symposium	
20	Yannis Korkolis	Yannis Korkolis	korkolis.1@osu.edu	Ohio State University	Forming	2025		Associate Editor, JMSE
3	Yongbing	Li	yongbinglee@sjtu.edu.cn	Shanghai Jiao Tong University	Welding and joining	2022	2018, 2019 MSEC Symposium	
4	Zhichao (Charlie)	Li	Charlie.Li@Dante-Solutions.com	Dante Solutions	Heat treatment software development, process modeling and optimization	2021	2016-2019 MSEC Symposium	
5	Dong	Lin	dongl@ksu.edu	Kansas State University	Laser additive manufacturing	2022	2019 MSEC Symposium	
6	Barbara	Linke	bslinke@ucdavis.edu	University of California - Davis	Grinding, abrasive processes, sustainable manufacturing	2022	2016 MSEC Symposium	
7	Xun	Liu	liu.7054@osu.edu	Ohio State University	Welding and joining	2022	2019 MSEC Symposium	
8	Chao	Ma	cma@tamu.edu	TAMU	Additive manufacturing	2022	2019 MSEC Symposium	
9	Rajiv	Malhotra	rajiv.malhotra@rutgers.edu	Rutgers University	Nanomanufacturing, materials forming processes	2020	2016, 2017 MSEC Symposium	
10	Arif	Malik	arif.malik@utdallas.edu	University of Texas at Dallas	Forming, modeling, analysis, and simulation of manufacturing processes	2021	2016 MSEC Symposium	MSEC 2018 Technical Program co-chair
11	T.	Matsumu	tmatsumu@cck.dendai.ac.jp	Tokyo Denki University	Machining	2022	2019 MSEC Symposium	
12	Laine	Mears	mears@clermson.edu	Clemson University	Manufacturing processes	2024	2016, 2017, 2018 MSEC Symposium	MED Executive Committee (2018-20)
13	Shreyes	Melkote	shreyes.melkote@me.gatech.edu	Georgia Institute of Technology	Machining processes	2021	2017, 2018 MSEC Symposium	MED Honors/Award Committee Chair (-2015)
14	Chandra	Nath	nathc2@asme.org	Hitachi America Ltd	multi-scale (macro, micro, and nano) manufacturing processes, digital	2021	2016, 2018 MSEC Symposium	
15	Gracious	Ngaile	gngaile@ncsu.edu	North Carolina State University	Metal forming	2019		2016 Early career forum

16	Farbod	Niaki	farbod.niaki@timken.com	Timken	Intelligent Manufacturing	2023	2020 MSEC Symposium	
17	Yayue	Pan	yayuepan@uic.edu	University of Illinois at Chicago	Additive Manufacturing Process Development and Control	2021	2018 MSEC Symposium	
18	Radu	Pavel	pavel@TechSolve.org	TechSolve, Inc.	Machining/grinding	2022	2017 MSEC Symposium	MED Executive Committee Chair (2020-2021)
19	Z.J.	Pei	zjpei@tamu.edu	Texas A&M University	Electronic materials processing, additive manufacturing	2022	2015, 2016 MSEC NSF Workshop	MSEC 2018/19 Technical Program co-chair
20	Frank	Pfefferkorn	frank.pfefferkorn@wisc.edu	University of Wisconsin-Madison	Thermally-enhanced manufacturing, friction stir welding, laser remelting, cutting temperature measurement, metal additive-subtractive mfg.	2021	2017 Early Career Forum; 2018 MSEC Symposium	2016 MSEC Technical Program chair
21	Fabrizio	Quadrini	fabrizio.quadrini@uniroma2.it	University of Rome Tor Vergata	Non-conventional technology, composite and nanocomposite materials, smart materials, polymer	2022	2016-2019 MSEC Symposium	
22	Johnson	Samuel	samuej2@rpi.edu	Rensselaer Polytechnic Institute	Micro/ultra-precision manufacturing, additive manufacturing	2022	2017 MSEC Technical program chair	2019 MSEC Early Career Forum chair
23	Steven	Schmid	steve.schmid@uncc.edu	steve.schmid@uncc.edu	Manufacturing Processes	2026		Associate Editor, JMSE
24	Keiichi	Shirase	shirase@mech.kobe-u.ac.jp	Kobe University	Manufacturing systems	2022	2019 MSEC Symposium	
25	Felicia	Stan	felicia.stan@ugal.ro	Dunarea de Jos University of Galati	Processing and characterisation of polymers and polymer-based composites, micro and nano machining, simulation of manufacturing processes	2022	2016-2019 MSEC Symposium	
26	Murali	Sundaram	murali.sundaram@uc.edu	University of Cincinnati	Micro and Nano machining, Nontraditional manufacturing, Additive Manufacturing	2021	2017, 2018 MSEC Symposium	
27	Wenda	Tan	wenda.tan@mech.utah.edu	University of Utah	Welding and joining	2022	2019 MSEC Symposium	
28	Durul	Ulutun	durul.ulutan@csun.edu	Kadir Has University	Manufacturing processes	2022	2016-2019 MSEC Symposium	
29	John	Vickers	john.h.vickers@nasa.gov	NASA	Additive manufacturing	2022	2019 MSEC Symposium	
30	Zhigang	Wang	Zhigang.Wang@makino.com	Makino	Nontraditional Manufacturing Processes	2022	2019 MSEC Symposium	
31	Hitomi	Yamaguchi	hitomiy@ufl.edu	University of Florida	Non-traditional manufacturing, abrasive technology	2022	2016-2019 MSEC Symposium	2016-2018 Chair of MP TC
32	Larry	Yao	yly1@columbia.edu	Columbia University	Laser manufacturing	2024	Editor-in-Chief, ASME/JMNM, 2012-2017	Editor-in-Chief, ASME/JMSE
33	Chang	Ye	eye@uakron.edu	Akron University	Laser manufacturing	2022	2019 MSEC Symposium	
34	Ho	Yeung	ho.yeung@nist.gov	NIST	Additive manufacturing	2022	2019 MSEC Symposium	
35	Meng	Zhang	meng@k-state.edu	Kansas State University	Nontraditional Manufacturing Processes	2022	2019 MSEC Symposium	
36	Wenwu	Zhang	zhangwenwu@nimte.ac.cn	Ningbo Institute of Materials Technology and Engineering	Laser based manufacturing	2019	2016 MSEC Symposium	
37	Xin	Zhao	xzhao5@clemsun.edu	Clemson University	laser-based manufacturing and materials processing, numerical modeling, dissimilar material joining	2022	2018-2019 MSEC Symposium	
38	Toshiyuki	Muraki	Toshiyuki_Muraki@mazak.co.jp	Mazak	Advanced Mfg	2022	2019 MSEC Symposium	
39	Fukuo	Hashimoto	fukuohashimoto@gmail.com	Timken	Advanced Mfg	2022	2019 MSEC Symposium	
40	Ramasubramani	Kuduvam-Ramanathanmoorthy	rkuduvaramanathanmoorthy@mmm.com	3M	Advanced Mfg	2022	2019 MSEC Symposium	
41	Nikhil	Churi	NChuri@slb.com	Schlumberger	Advanced Mfg	2022	2019 MSEC Symposium	

## Potential Members

POTENTIAL NEW MEMBERS								
	First Name	Last Name	Email	Affiliation	Area	Term	Latest ASME activity organized	Note
1	Alessandro	Ascari	<a href="mailto:a.ascari@unibo.it">a.ascari@unibo.it</a>	University of Bologna			2018 MSEC Symposium	
2	Yayue	Pan	<a href="mailto:yayuepan@uic.edu">yayuepan@uic.edu</a>	University of Illinois at Chicago				
3	Jae-Won	Choi	<a href="mailto:jchoi1@uakron.edu">jchoi1@uakron.edu</a>	The University of Akron				
4	Federico	Iacovell	<a href="mailto:fiacovella@sisma.com">fiacovella@sisma.com</a>	SISMA			2018 MSEC Symposium	
5	Mike	Smith	<a href="mailto:mike.smith1@magna.com">mike.smith1@magna.com</a>	Magna International			2020 MSEC Symposium	
6	Kai	Cheng	<a href="mailto:kai.cheng@brunel.ac.uk">kai.cheng@brunel.ac.uk</a>	Brunel University	Micro-Nano Manufacturing			
7	Aleksandra	Fortier	<a href="mailto:drafortier@gmail.com">drafortier@gmail.com</a>					
8	Simon	Park	<a href="mailto:simon.park@ucalgary.ca">simon.park@ucalgary.ca</a>	University of Calgary	Micro-Nano Manufacturing		2018 MSEC Symposium	
9	Adrian	Lutey	<a href="mailto:adrian.lutey@unipr.it">adrian.lutey@unipr.it</a>	University of Parma	Laser materials processing		2018 MSEC Symposium	
10	Majid	Minary	<a href="mailto:majid.minary@utdallas.edu">majid.minary@utdallas.edu</a>	University of Texas at Dallas	Multifunctional Materials		2018 MSEC Symposium	
11	Jun	Zeng	<a href="mailto:jun.zeng@hp.com">jun.zeng@hp.com</a>	HP Labs			2018 MSEC Symposium	
12	Harumitsu	Senda	<a href="mailto:h-senda@okuma.co.jp">h-senda@okuma.co.jp</a>	Okuma Corporation			2017 MSEC Symposium	

## Recently Retired Members

RECENTLY RETIRED MEMBERS								
	First Name	Last Name	Email	Affiliation	Area	Term	Latest ASME activity organized	Note
1	Shuting	Lei	<a href="mailto:lei@ksu.edu">lei@ksu.edu</a>	Kansas State University	Machining processes	2018	2015 MSEC Symposium	
2	Chinedum	Okwudire	<a href="mailto:okwudire@umich.edu">okwudire@umich.edu</a>	University of Michigan, Ann Arbor	Equipment design, tooling, and control/automation	2018	2015 MSEC Symposium	
3	Zunping	Liu	<a href="mailto:zpliu@anl.gov">zpliu@anl.gov</a>	Argonne National Lab	Energy manufacturing	2018	2015 MSEC Symposium	
4	Bin	Wei		Retired from GE	Manufacturing processes	2018	2015 MSEC Symposium	
5	Xuwei	Yang	<a href="mailto:yangxuwei119@gmail.com">yangxuwei119@gmail.com</a>	North Carolina State University	Green energy	2018	2015 MSEC Symposium	
6	Chris	Yuan	<a href="mailto:chris.yuan@case.edu">chris.yuan@case.edu</a>	Case Western Reserve University	Sustainable manufacturing, nano-manufacturing	2018	2015 MSEC Symposium	
7	Wenjiao (Wayne)	Yuan	<a href="mailto:wuyan2@ncsu.edu">wuyan2@ncsu.edu</a>	North Carolina State University	Energy manufacturing	2018	2015 MSEC Symposium	