### Monday, June 27

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Facilitator</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am</td>
<td>Breakfast (SME Staff and NAMRC BOD)</td>
<td>Old Guard</td>
<td></td>
</tr>
<tr>
<td>8:00am</td>
<td>NAMRI Board of Directors Meeting</td>
<td>Duck Pond</td>
<td>Steve Schmid</td>
</tr>
<tr>
<td>11:00am</td>
<td>Registration</td>
<td>Lower Quad</td>
<td></td>
</tr>
<tr>
<td>12:00pm</td>
<td>Lunch (SME staff and NAMRC BOD)</td>
<td>Duck Pond</td>
<td></td>
</tr>
<tr>
<td>12:00pm</td>
<td>Effective Proposal Writing Workshop</td>
<td>Smithfield</td>
<td>Tony Schmitz</td>
</tr>
<tr>
<td>1:00pm</td>
<td>BioAdditive Manufacturing Tutorial</td>
<td>Smithfield</td>
<td>Scott Verbridge &amp; Blake Johnson</td>
</tr>
<tr>
<td>1:00pm</td>
<td>Exhibit Set-up</td>
<td>Latham Foyer</td>
<td></td>
</tr>
<tr>
<td>3:35pm</td>
<td>Technology Transfer</td>
<td>Smithfield</td>
<td>Scott Pearl</td>
</tr>
<tr>
<td>5:00pm</td>
<td>Lab Tours</td>
<td>Goodwin Hall</td>
<td></td>
</tr>
<tr>
<td>7:00pm</td>
<td>Techworking Reception</td>
<td>Latham Foyer</td>
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</tr>
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### Tuesday, June 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Facilitator</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am</td>
<td>Registration</td>
<td>Lower Quad</td>
<td></td>
</tr>
<tr>
<td>7:30am</td>
<td>Exhibits</td>
<td>Latham Foyer</td>
<td></td>
</tr>
<tr>
<td>8:00am</td>
<td>Welcome</td>
<td>Latham Ballroom</td>
<td>Jaime Camelo</td>
</tr>
<tr>
<td>8:15am</td>
<td>Keynote: Mike Molnar, &quot;The National Network for Manufacturing Innovation&quot;</td>
<td>Latham Ballroom</td>
<td>Frank Pfefferkorn</td>
</tr>
<tr>
<td>8:35am</td>
<td>Keynote: Prof. Sridhar Kota, (&quot;M-Foresight: The Alliance for Manufacturing Foresight&quot;)</td>
<td>Latham Ballroom</td>
<td>Frank Pfefferkorn</td>
</tr>
<tr>
<td>8:45am</td>
<td>Remembering David Dornfeld and Ranga Komanduri</td>
<td>Latham Ballroom</td>
<td>Moneer Helu and Shivakumar Raman</td>
</tr>
<tr>
<td>9:10am</td>
<td>MED Executive Committee Meeting</td>
<td>Durham Hall - Room 260</td>
<td>Brian Paul</td>
</tr>
<tr>
<td>9:15am</td>
<td>Manufacturing in a Low Energy Future: Invited Talk by Dr. Julian Allwood (Cambridge University)</td>
<td>Alumni Assembly</td>
<td>Barbara Linke and Moneer Helu</td>
</tr>
</tbody>
</table>

### Concurrent Technical Tracks: 1

- **Komanduri Symposium: Opening and NAMRC - 137**
  - Location: Solitude
  - Facilitator: Shiva Raman and Satish Bukkapatnam

- **MSEC Session 4-6-1 Cloud Manufacturing - an Industrial Perspective 1**: MSEC papers 8530, 8572, 8581
  - Location: Cascades A
  - Facilitator: Xun Xu and Lihui Wang

- **MSEC Session 1-2-1 Cellular Materials: NAMRC papers 8849, 8767, 8837**
  - Location: Draper's Meadow
  - Facilitator: John Agapious and Hongliang Wang

- **MSEC Session 4-3-1 Cyber-Physical Systems, Stochastic Modeling, and Sensor Networks: MSEC papers 8660, 8661, 8663**
  - Location: Cascades B
  - Facilitator: Dongping Du and Zimo Wang

- **MSEC Session 2-14-1 Advances in Composites Manufacturing Processes 1: MSEC papers 8864, 8531, 8773**
  - Location: Ellett Valley
  - Facilitator: Daniel Walczyk and David Hauber

- **MSEC Session 2-4-1 Solid-State Processing: MSEC papers 8512, 8747, 8770**
  - Location: Duck Pond
  - Facilitator: Nilesh Kumar

- **MSEC Session 2-2-1 Assisted/Augmented Manufacturing Processes 1: MSEC papers 8554, 8555, 8736**
  - Location: Huckleberry
  - Facilitator: Burak Sencer and Abram Pleta

### Concurrent Technical Tracks: 2

- **Komanduri Symposium: NAMRC - 71, 74, 133**
  - Location: Solitude
  - Facilitator: Shiva Raman and James Kong

- **NAMRC Joining I: 48, 26, 115**
  - Location: Draper's Meadow
  - Facilitator: Herman Tang and Hongtao Ding

- **Mfg. Education & Workforce Development 1: NAMRC - 57, 104, 142**
  - Location: Smithfield
  - Facilitator: Gloria Wines and Bryan Chu

- **MSEC Session 4-6-2 Cloud Manufacturing - an Industrial Perspective 2**: MSEC papers 8726, 8658, 8538
  - Location: Cascades A
  - Facilitator: Goran Adamson and Lei Ren

- **MSEC Session 1-2-2 Electronic Materials: MSEC papers 8627, 8654**
  - Location: Cascades B
  - Facilitator: Sameh Tawfick and Rebecca Kramer

- **MSEC Session 2-14-2 Advanced in Composites Manufacturing Processes 2: MSEC papers 8606, 8607, 8683**
  - Location: Draper's Meadow
  - Facilitator: Daniel Walczyk and David Hauber

- **MSEC Session 2-4-2 Solid-State Joining 2: MSEC papers 8695, 8841, 8599**
  - Location: Huckleberry
  - Facilitator: Wayne Cai

- **MSEC Session 2-2-2 Assisted/Augmented Manufacturing Processes II: MSEC papers 8565, 8605, 8511**

- **JMSE Editorial Meeting**
  - Location: 1872 Salon

- **Industry Lunch**
  - Location: Latham Ballroom

- **Student Manufacturing Design Competition 2**: MSEC oral presentations 8904, 8905, 8906, 8910
  - Location: Ellett Valley
  - Facilitator: Kevin Chou and Radu Pavel

- **Concurrent Technical Tracks: 3**

  - **Komanduri Symposium: NAMRC - 3, 140, 128**
    - Location: Solitude
    - Facilitator: Ramesh Babu and Shreyes Melkote

  - **Process, Property, Performance Relationship in Additive Mfg. 1: MSEC - 8561, MSEC - 8791, NAMRC - 118**
    - Location: Assembly
    - Facilitator: Bashir Khoda and Chi Zhou

  - **MSEC Session 4-4-1 Data Infrastructures for Mfg. Planning & Control 1: MSEC papers 8866, 8783, 8769**
    - Location: Drillfield
    - Facilitator: Moneer Helu and Parikshit Mehta

  - **Mfg Education & Workforce Development 2: NAMRC - 138, 139, 155**
    - Location: Smithfield
    - Facilitator: Hitomi Yamaguchi and Haley Stevens

  - **MSEC Session 1-2-3 Novel Meta Structures: MSEC papers 8754, 8668, 8755**
    - Location: Drillfield
    - Facilitator: Sameh Tawfick and Kenneth Cheung

  - **NAMRC Forging I: NAMRC - 129, 143 and Abrasive Machining: NAMRC 69**
    - Location: Cascades A
    - Facilitator: Stefani Bruschi and Gracious Ngaile
### Concurrent Technical Tracks: 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Facilitator</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:30pm - 4:15pm</td>
<td>Concurrent Technical Tracks: 4</td>
<td>Draper’s Meadow, Upper Quad</td>
<td>Tom Hedberg and Nathan Hartman</td>
</tr>
<tr>
<td></td>
<td>Komanduri Symposium: NAMRC - 5, 6, 13</td>
<td>Solitude</td>
<td>Satish Bukkapatnam and Prahlad Rao</td>
</tr>
<tr>
<td></td>
<td>Novel Topics in Additive Manufacturing 1: NAMRC 127, 35 and SE = 8551</td>
<td>Assembly</td>
<td>Murali Sundaram and Jarred Heigel</td>
</tr>
<tr>
<td></td>
<td>MSEC Session 4-4-2 Data Infrastructures for Mfgg. Planning &amp; Control 2: MSEC papers 8751, 8635</td>
<td>Drillfield</td>
<td>Parikshit Mehta and Moneer Helu</td>
</tr>
<tr>
<td></td>
<td>Mfg. Education &amp; Workforce Development 3: Panel Discussion</td>
<td>Smithfield</td>
<td>Hitomi Yamaguchi</td>
</tr>
<tr>
<td></td>
<td>MSEC Session 2-2-3 Assisted/Augmented Manufacturing Processes 3: MSEC papers 8652, 8734, 8810</td>
<td>Duck Pond</td>
<td>Ilhab Ragai and Lujia Feng</td>
</tr>
<tr>
<td></td>
<td>NAMRC Cutting II - Turning: NAMRC -19, 23, 49</td>
<td>Cascades B</td>
<td>Patrick Kwon and Shan Luo</td>
</tr>
<tr>
<td></td>
<td>NAMRC Surface I - NAMRC - 67, 78, 149</td>
<td>Cascades A</td>
<td>Herman Tang and Steven Schmid</td>
</tr>
<tr>
<td>4:15pm - 5:00pm</td>
<td>MSEC Session 2-5-2 Abrasive Machining Machine Design: MSEC papers 8527, 8634, 8709</td>
<td>Draper’s Meadow</td>
<td>Barbara Linke and Kai Cheng</td>
</tr>
<tr>
<td></td>
<td>MSEC Session 5-1-2 Sustainable Manufacturing Information Management: MSEC papers 8745, 8677</td>
<td>Huckleberry</td>
<td>Nathan Hartmann and Thomas Hedberg</td>
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<tr>
<td></td>
<td>MSEC Session 2-1-1 Energy Field Manufacturing Process I: MSEC papers 8515, 8869, 8718</td>
<td>Ellet Valley</td>
<td>Weilong Cong and Alessandro Fortunato</td>
</tr>
<tr>
<td>5:00pm - 6:00pm</td>
<td>Industry Reception Setup</td>
<td>Lane Stadium</td>
<td></td>
</tr>
<tr>
<td>6:00pm - 7:00pm</td>
<td>ASME MED Membership Meeting</td>
<td>Smithfield</td>
<td>Brian Paul and Shawn Moylan</td>
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<tr>
<td>7:00pm - 8:00pm</td>
<td>NAMRI SME Membership Meeting</td>
<td>Smithfield</td>
<td>Steve Schmid</td>
</tr>
<tr>
<td>8:00pm - 9:00pm</td>
<td>Shuttles depart for industry reception every 15 min.</td>
<td>1st floor lobby</td>
<td></td>
</tr>
<tr>
<td>9:00pm - 10:00pm</td>
<td>Industry Reception</td>
<td>Lane Stadium</td>
<td></td>
</tr>
<tr>
<td>10:00pm - 11:00pm</td>
<td>Shuttles pick up from industry reception every 15 min.</td>
<td>Lane Stadium</td>
<td></td>
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### Wednesday, June 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Facilitator</th>
</tr>
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<tbody>
<tr>
<td>7:00am - 7:00pm</td>
<td>Registration</td>
<td>Lower Quad</td>
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<tr>
<td>7:30am - 8:00pm</td>
<td>Exhibits</td>
<td>Latham Foyer</td>
<td></td>
</tr>
<tr>
<td>8:00am - 8:30pm</td>
<td>Elsevier Journals Editorial Board Meeting</td>
<td>Durham Hall - Room 260</td>
<td></td>
</tr>
<tr>
<td>8:00am - 8:05am</td>
<td>Welcome</td>
<td>Latham Ballroom</td>
<td>Jaime Camielo</td>
</tr>
<tr>
<td>8:05am - 9:00am</td>
<td>Keynote: Prof. Fritz Klocke, “Smart Technologies for a Sustainable and Resource Efficient Production”</td>
<td>Latham Ballroom</td>
<td>Albert Shih</td>
</tr>
<tr>
<td>9:15am - 10:15am</td>
<td>Concurrent Technical Tracks: 5</td>
<td>Smithfield</td>
<td>Terri Jia and Wilfredo Moscoso-Kingsley</td>
</tr>
<tr>
<td></td>
<td>Komanduri Symposium: NAMRC - 76, 123, 15</td>
<td>Solitude</td>
<td>Rayne Zheng and Sam, Anand</td>
</tr>
<tr>
<td></td>
<td>Dornfeld Symposium: Opening Session</td>
<td>Molneer Helu</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Process, Property, Performance Relationship in Additive Mfg. 2: MSEC papers 8790, 8846 and NAMRC - 10</td>
<td>Assembly</td>
<td>Bruce Tai and Hitomi Yamaguchi</td>
</tr>
<tr>
<td></td>
<td>MSEC Session 3-1-1 Analysis, Design, and Mfg. of Biomedical Devices 1: MSEC papers 8690, 8696, 8743</td>
<td>Duck Pond</td>
<td>Xi Vincent Wang and Tao Peng</td>
</tr>
<tr>
<td>10:15am - 11:15am</td>
<td>MSEC Session 4-6-3 Cloud Manufacturing - an Industrial Perspective 3: MSEC papers 8723, 8752, 8771</td>
<td>Smithfield</td>
<td>Patrick Kwon and Shan Luo</td>
</tr>
<tr>
<td></td>
<td>NAMRC Cutting III - Milling: NAMRC - 65, 73,39</td>
<td>Cascades A</td>
<td>Prahalad Rao and Seungchul Lee</td>
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<tr>
<td></td>
<td>NAMRC Machine Tool I: NAMRC - 21, 81, 105</td>
<td>Cascades B</td>
<td>Dong Lin, Wilfredo Mosco, and Chang Ye</td>
</tr>
<tr>
<td></td>
<td>MSEC Session 1-1-1: Effect of Surface Modification on Corrosion Behavior: MSEC papers 8705, 8689, 8822</td>
<td>Ellet Valley</td>
<td>Kai Cheng</td>
</tr>
<tr>
<td>11:15am - 12:15am</td>
<td>MSEC Session 2-5-3 Abrasive Machining Tool Design and Products: MSEC papers 8636, 8613, 8707</td>
<td>Draper’s Meadow</td>
<td>Wilfredo Moscoso-Kingsley and Stefania Bruschi</td>
</tr>
<tr>
<td>12:15pm - 1:15pm</td>
<td>Morning Break</td>
<td>Huckleberry</td>
<td>Xin Zhao and Murali Sundaram</td>
</tr>
<tr>
<td>12:30pm - 1:30pm</td>
<td>Concurrent Technical Tracks: 6</td>
<td>Latham Ballroom</td>
<td></td>
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<tr>
<td></td>
<td>Komanduri Symposium: NAMRC - 56, 120, 153</td>
<td>Smithfield</td>
<td>Jingyong Dong and Shiva Raman</td>
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<tr>
<td></td>
<td>Dornfeld Symposium 2 - Tool Wear: NAMRC - 88, 7</td>
<td>Solitude</td>
<td>Gerald Byrne</td>
</tr>
<tr>
<td></td>
<td>Novel Topics in Additive Manufacturing 2: MSEC -8569, and NAMRC - 14, 125</td>
<td>Assembly</td>
<td>Bruce Tai and Kira Barton</td>
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<tr>
<td></td>
<td>MSEC Session 3-2-1 Additive Bio-mfg. of Tissues and Multiscale Engineered Tissue Constructs - 1: MSEC papers 8556, 8774, 8877</td>
<td>Duck Pond</td>
<td>Binil Starly and Jason Moore</td>
</tr>
<tr>
<td></td>
<td>MSEC Session 4-6-4 Cloud Manufacturing - an Industrial Perspective 4: MSEC papers 8620, 8733, 8669</td>
<td>Drilfield</td>
<td>Lihui Wang and Xun Xu</td>
</tr>
<tr>
<td>12:30pm - 1:30pm</td>
<td>NAMRC Cutting IV - Milling: NAMRC - 44, 61 and NAMRC Forming - 11</td>
<td>Cascades A</td>
<td>Wilfredo Moscoso-Kingsley and Stefania Bruschi</td>
</tr>
<tr>
<td></td>
<td>NAMRC Machine Tool II: NAMRC - 60, 83, 92</td>
<td>Cascades B</td>
<td>Prahalad Rao and Seungchul Lee</td>
</tr>
<tr>
<td>12:30pm - 2:00pm</td>
<td>SME Journals Committee Meeting</td>
<td>1872 Salon</td>
<td>Mark Jackson and Robin Bright</td>
</tr>
<tr>
<td>1:15pm - 1:30pm</td>
<td>ASME Awards Luncheon</td>
<td>Latham Ballroom</td>
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</tbody>
</table>
### Concurrent Technical Tracks: 7

Komanduri Symposium: NAMRC - 38, 18, 12
- Smithfield: B. Zhang and N. Umehara

Dornfeld Symposium 3 - Process Monitoring: MSEC papers 8820, 8551, 8725
- Solitude: Gerald Byrne and Elijah Kannatey-Asibu

Novel Topics in Additive Manufacturing: NAMRC - 72, 80, 98
- Assembly: Bruce Tai and David Hoelzle

MSEC Session 3-1-2 Analysis, Design, and Manufacturing of Biomedical Devices - 2: MSEC papers - 8513, 8731, 8801
- Duck Pond: Jhywen Wang and Jason Moore

NAMRC Laser Processing I: NAMRC - 20, 89, 108
- Driffel: Benxin Wu and Jia Tao

NAMRC EDM/ECM I: NAMRC - 4, 66
- Cascades B: Wansheng Zhao and Blake Johnson

MSEC Session 1-1-3 Severe Shear and Plastic Deformation: MSEC papers 8503, 8802, 8609
- Draper’s Meadow: Wilfredo Moscoso, Yang Guo, and Chang Ye

MSEC Session 2-7-1 Scalable Nanomanufacturing 1: MSEC papers 8584, 8782, 8797
- Ellett Valley: Robert Keynton

Poster Session Set up
- Latham Ballroom: Yongxiang Hu and Ninggang Shen

### Concurrent Technical Tracks: 8

Dornfeld Symposium 4 - Sustainable Mfg: 1: NAMRC - 84, 106, 36
- Solitude: Valerie Maier-Speredelozzi and Chris Yuan

CAD/CAM Topics in Additive Manufacturing-1: NAMRC - 100, 27 and MSEC - 8784
- Assembly: Bashir Khoda, Jing Shi, and Weilong Cong

MSEC Session 2-3-1 Solid State Joining: 1: MSEC papers 8578, 8589, 8823
- Smithfield: Jinging Li and Wayne Cai

MSEC Session 3-1-3 Analysis, Design, and Manufacturing of Biomedical Devices - 3: MSEC papers - 8794, 8806, 8840
- Duck Pond: Yuan-Shin Lee and Ying Zhang

NAMRC Laser Processing II: NAMRC - 114, 116, 124
- Cascades A: Jianfeng Ma and Benxin Wu

NAMRC EDM/ECM II: NAMRC - 102, 131, 148
- Cascades B: Lin Gu and Jingfu Liu

MSEC Session 1-1-4 Micromechanics and Microstructure Evolution: MSEC papers 8580, 8594, 8778
- Draper’s Meadow: Saurabh Basu, Yang Guo, and Wilfredo Moscoso

MSEC Session 2-7-2 Scalable Nanomanufacturing 2: MSEC papers 8566, 8793, 8693
- Ellett Valley: Rajiv Malhotra

### Concurrent Technical Tracks: 9

MSEC Session 2-10-1 Processing and Testing of Polymers and Composites 1: MSEC papers
- 8557, 8678
- Driffel: Loredana Santo and Felicia Stan

MSEC Session 3-2-2 Additive Bio-mfg. of Tissues and Multiscale Engineered Tissue Constructs
- - 2: MSEC papers - 8852, 8888, 8619
- Duck Pond: Robert Chang and Eda Yildirim-Ayan

MSEC 2-11-1 3D printed Smart Polymers: MSEC papers 8667, 8826, 8865
- Cascades A: Howon Lee and Keng Hsu

MSEC Session 4-10-1 Quality Assurance in Additive Manufacturing Systems: MSEC papers 8516, 8835, 8815
- Cascades B: Prahallad Rao and Chi Zhou

MSEC Session 2-7-3 Scalable Nanomanufacturing 3: MSEC papers 8662, 8671
- Ellett Valley: Michael Cullinan

MSEC Session 4-1-1 Manufacturing Equipment and Process Control: MSEC papers 8573, 8529, 8762
- Huckleberry: Ping Guo and Hontao Ding

Dornfeld Symposium 5 - Process Monitoring: NAMRC - 50, 70
- Solitude: Warren DeVries

MSEC Session 4-9-1 Analytics for System Information and Sustainability 1: MSEC papers 8506, 8518, 8617
- Draper’s Meadow: Weihong Gao, Ran Jin, and Chenhui Shao

### Concurrent Technical Tracks: 10

Dornfeld Symposium 6 - Smart Manufacturing: MSEC papers - 8564, 8629, 8586
- Smithfield: Kevin Smith

Process, Property, Performance Relationship in Additive Mfg 3: MSEC - 8863, 8684 and NAMRC 117
- Assembly: Kevin Chou and Weilong Cong

MSEC Session 2-10-2 Processing and Testing of Polymers and Composites 2: MSEC paper 8571, 8638
- Solitude: Fabrizio Quadrini and Catalin Fetecau

MSEC Session 2-7-4 Scalable Nanomanufacturing 4: MSEC papers 8650, 8835, 8567
- Duck Pond: Jorge Correa

Mfg Systems: NAMRC - 25, 22, 34
- Driffel: Laine Mears and Dazhong Wu

NAMRC Forming II: NAMRC - 24, 113
- Cascades A: Gracius Ngoai and Jhywen Wang

NAMRC Surface II: NAMRC - 91, 93, 75
- Cascades B: Bruce Tai and Jinyang Dong

MSEC Session 2-6-1 Forming 1: MSEC papers 8532, 8649, 8111
- Draper’s Meadow: Rajiv Malhotra

MSEC Session 4-9-2 Analytics for System informatics and Sustainability 2: MSEC papers 8885, 8704, 8717
- Ellett Valley: Hui Wang and Qing Change

MSEC Session 4-11-1 Intelligent Maintenance Decision Making for Manufacturing Systems: MSEC papers 8547, 8615, 8674
- Huckleberry: Yong Wang and Zeyi Sun

### Concurrent Technical Tracks: 11

Dornfeld Symposium 7 - Sustainable Mfg 2: MSEC papers 8642, 8746, 8804
- Smithfield: John Sutherland
**CAD/CAM Topics in Additive Manufacturing - Session II: NAMRC - 82, 87, 90**

**MSEC Session 2-10-3 Advances in Manufacturing of Polymers and Composites: MSEC papers 8528, 8621, 8786**

**MSEC Session 2-8-1 Modeling, Analysis, and Simulation of Mfg. Processes 1: MSEC papers 8583, 8656, 8739**

**Mfg Systems: NAMRC - 112, 121, 42**

**NAMRC Forming III: NAMRC - 64, 111, 126**

**NAMRC Cutting V - Turning: NAMRC - 94, 141**

**MSEC Session 2-6-2 Forming 2: MSEC papers 8533, 8805, 8813**

**MSEC Session 4-1-2 Manufacturing Equipment 2: MSEC papers 8643, 8710, 8862**

**MSEC Session 4-9-3 Analytics for System Informatics and Sustainability 3: MSEC papers 8722, 8735, 8750**

**11:00am - 12:30pm**

- Assembly: Sam Anand and Kevin Chou
- Smithfield: Felicia Stan and Catalin Fetecau
- Duck Pond: Laine Mears
- Drillfield: Lihui Wang and Valerie Maier Speredelozzi
- Cascades A: Herman Tang and Jyhwen Wang
- Cascades B: Raja Kountanya and Xiaoliang Jin
- Draper’s Meadow: Ihab Ragai
- Huckleberry: Keith Bourne and Chao Wang
- Ellet Valley: H. John Wang and Weihong Guo

**12:30pm - 1:10pm**

- Lunch: Latham Ballroom

**1:15pm - 2:00pm**

- SME Awards Luncheon & Founders Address: Latham Ballroom

**Concurrent Technical Tracks: 12**

- **Dornfeld Symposium 8 - Sustainable Mfg. 3: MSEC papers - 8517, 8719, 8880**
  Assembly: Yuebin Guo

- **Modeling and Simulation of Metal Additive Mfg: MSEC - 8692, 8623, 8819**
  Assembly: Terri Jia and Shawn Moylan

- **MSEC Session 2-13-1 Machining of Ceramics and Ceramic Matrix Composites: MSEC papers 8510, 8766, 8579**
  Smithfield: Steven Y. Liang and Patrick Kwon

- **MSEC Session 2-8-2 Modeling, Analysis, and Simulation of Mfg. Processes 2: MSEC papers 8595, 8758, 8874**
  Duck Pond: Zhihao (Charlie) Li

**2:15pm - 3:45pm**

- **Mfg Systems: NAMRC - 59, 144, 32**
  Driffield: Sam Anand and James Kong

- **NAMRC Abrasive Machining: NAMRC - 16, 146**
  Cascades A: Hongseok Choi and Mark Jackson

- **NAMRC Joining II: NAMRC - 9, 96, 107**
  Cascades B: Hongtao Ding and Wayne Cai

- **MSEC Session 2-6-3 Forming 3: MSEC papers 8829, 8839**
  Draper’s Meadow: Rajiv Malhotra

- **MSEC Session 4-2-1 Process-Machine-Interactions 1: MSEC papers 8713, 8715, 8857**
  Ellet Valley: Durul Ulutan and Burak Sencer

- **MSEC Session 4-9-4 Analytics for System Informatics and Sustainability 4: MSEC papers 8757, 8781, 8854**
  Huckleberry: Ran Jin, Hui Wang, and Chenhui Shao

**3:45pm - 4:00pm**

- Afternoon break: Upper Quad

**Concurrent Technical Tracks: 13**

- **Dornfeld Symposium 9 - Sustainable Mfg. 4: MSEC papers 8730, 8639, 8682**
  Solitude: Barbara Linke

- **Mfg Systems: NAMRC - 37, 110**
  Driffield: Shing Chang and Wei Li

- **NAMRC Cutting VI - Drilling: NAMRC - 2, 130, 43**
  Cascades A: Wilfredo Moscoso-Kingsley and Tony Schmitz

- **MSEC Session 2-6-4 Forming 4: MSEC papers 8753, 8756, 8852**
  Cascades B: Gracis Ngaille

- **MSEC Session 2-8-3 Modeling, Analysis, and Simulation of Mfg. Processes 3: MSEC papers 8708, 8724, 8577**
  Duck Pond: Arif Malik

**4:00pm - 5:30pm**

- **MSEC Session 4-8-1 High Performance Computing and Data Analytics in Manufacturing: MSEC papers 8525, 8559, 8625**
  Draper’s Meadow: Dazhong Wu and Janis Terpenny

- **MSEC Session 4-2-2 Process-Machine-Interactions 2: MSEC papers 8665, 8872**
  Ellet Valley: Burak Sencer and Alex O’Connor

- **6:00pm - 8:30pm**
  Early Career Forum & Student Reception: Latham A

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**Friday, July 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Facilitator</th>
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</thead>
<tbody>
<tr>
<td>9:00am - 11:00am</td>
<td>Information desk</td>
<td>Latham Foyer</td>
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<tr>
<td>11:00am - 11:30am</td>
<td>Tour Check-in</td>
<td>1st Floor Lobby</td>
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<tr>
<td>11:30am</td>
<td>Depart for tours (Volvo and Cascades)</td>
<td>1st Floor Lobby</td>
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