11:45 am  Creating Models for Aortic Stent Placement Simulation
Amy E. Alexander

12:00  3D Printing for Planning and Simulation of Complex Endovascular Aortic Repair
Aaron Baker, M.D.

12:30  3D Printing in Cardiovascular Practice, Education and Research
David Frakes, Ph.D.

1:00  Panel Discussion / Q & A Session
Amy E. Alexander, Aaron Baker, M.D., Thomas A. Foley, M.D., David Frakes, Ph.D., and Sameh M. Said, M.D.

1:15  Session Adjourns for the Day

1:15-3:00pm  Exhibit Hall Open
(No credit available)

**Sunday, March 5, 2017**

7:00 am  Continental Breakfast for Meeting Participants

7:25  Announcements

7:30  3D Printing MSK Applications
John A. Skinner, M.D. and Matthew Howe, M.D.

8:00  The Value of 3-D Printing in Pediatric Orthopedics
Anthony A. Stans, M.D.

8:30  Uses of 3D Printing in Orthopedic Oncology
Peter S. Rose, M.D.

9:00  Limb Deformity Evaluation and Treatment
Andy Sems, M.D.

9:30  Applications for Rapid Prototyping in Orthopedic Surgery
Adam J. Schwartz, M.D.

10:00  3D Printing Applications in Shoulder Surgery
John W. Sperling, M.D.

10:30  Panel Discussion / Q & A Session
Matthew Howe, M.D., Peter S. Rose, M.D., Adam J. Schwartz, M.D., Andy Sems, M.D., John A. Skinner, M.D., John W. Sperling, M.D., and Anthony A. Stans, M.D.

10:45  Refreshment Break

Exhibits and Posters

11:00  Techniques and Tips for Creation of Pediatric and Thoracic Models
Jane M. Matsumoto, M.D.

11:15  Anatomic Models for Complex Pediatric Surgery: Next Steps
Christopher Moir, M.D.

11:45  3D Printing in Thoracic Surgery
Shanda Blackmon, M.D., M.P.H.

12:15  Mayo Experience: 10 Years in the 3D Lab
Jane M. Matsumoto, M.D.

12:30  3D Printing Trends and Messaging for the Community
Frank J. Rybicki, M.D., Ph.D.

1:00  Panel Discussion / Q & A Session
Shanda Blackmon, M.D., M.P.H., Jane M. Matsumoto, M.D., Christopher Moir, M.D., and Frank J. Rybicki, M.D., Ph.D.

1:15  Course Concludes
Friday, March 3, 2017

7:00 am  Registration and Continental Breakfast for Meeting Participants
           Exhibits and Posters

7:25   Announcements

7:30   Creating a 3D Printing Lab in Radiology
           Kent R. Thielen, M.D.

8:00   A 20 Year Perspective on 3D Printing in Medicine and Current US Regulatory Insights
           Andy Christensen

8:30   3D Printing Technologies - Current Landscape
           Jonathan M. Morris, M.D.

9:00   Anatomical Model Image Acquisitions: Key Points and Future Opportunities
           TBD

9:30   Segmentation Software World: What, Where and How
           Jane M. Matsumoto, M.D.

9:50   Panel Discussion / Q & A Session
           Andy Christensen, Jane M. Matsumoto, M.D., Jonathan M. Morris, M.D., and Kent R. Thielen, M.D.

10:10  Refreshment Break
           Exhibits and Posters

10:25  Quality Assurance Program for 3D Printing: From the Scanner to the Printer
           Shuai Leng, Ph.D.

10:45  Post-processing: Molding and Casting Processes
           Justin Ryan, Ph.D.

11:15  3D Printing in Interventional Radiology - for Research and Clinical Practice
           Rahmi Oklu, M.D., Ph.D.

11:45  Current State of 3D Printed Bone Scaffolding in Regenerative Medicine
           Michael J. Yaszemski, M.D.

12:15  Opportunities for 3D Printing as an Educational Tool
           Jane M. Matsumoto, M.D.

12:45  Panel Discussion / Q & A Session
           Shuai Leng, Ph.D., Jane M. Matsumoto, M.D., Rahmi Oklu, M.D., Ph.D., Justin Ryan, Ph.D., and Michael J. Yaszemski, M.D.

1:00   Session Adjourns for the Day

1:00-3:00  Exhibit Hall Open
           (No credit available)

5:00-6:30 pm  Welcome Reception

Saturday, March 4, 2017

7:00 am  Continental Breakfast for Meeting Participants

7:25   Announcements

7:30   3D Printing for Craniofacial Cases: Pearls and Pitfalls
           Jonathan M. Morris, M.D.

8:00   Virtual Surgical Planning in Pediatric Skull Base and Craniofacial Surgery
           Nicholas M. Wetjen, M.D.

8:30   Designing Cutting Guides for Craniofacial Surgery
           Amy E. Alexander

8:45   Considerations in Mandibular Reconstruction
           Kevin Arce, D.M.D., M.D.

9:15   Collaborative 3D Printing for Individualized Care in Complex Head and Neck Reconstruction
           Eric J. Moore, M.D.

9:45   Forensics: Recreating the Injuries & Non-Accidental Trauma
           Jonathan M. Morris, M.D.

10:15  Panel Discussion / Q & A Session
           Amy E. Alexander, Kevin Arce, D.M.D., M.D., Eric J. Moore, M.D., Jonathan M. Morris, M.D., and Nicholas M. Wetjen, M.D.

10:30  Refreshment Break
           Exhibits and Posters

10:45  Image Acquisition, Segmentation, and Processing for Cardiovascular Models
           Thomas A. Foley, M.D.

11:15  Use of 3D Models for Cardiovascular Surgery
           Sameh M. Said, M.D.