3D Printing in Healthcare Conference, Amsterdam, Netherlands

Advisory Panel:

• Prof. Dr. Jules Poukens, Cranio-maxillofacial Surgeon Zuyderland Medical Center, The Netherlands
• Dr. Bon Verweij, Neurosurgeon, UMC Utrecht, Netherlands
• Prof. Dr. Nico Verdonschot, Director of Biomechanics, Radboud University Nijmegen Medical Centre, Netherlands
• Prof. Dr. Maurice Mommaerts, Head, Department Cranio-Maxillofacial Surgery, University Hospital Brussels, Belgium
• Dr. Boyd Goldie, Consultant Orthopaedic Surgeon, Holly House Hospital, UK

Event Overview:

3D printing is developing as a practical, proficient, and altered assembling choice for the therapeutic gadgets industry—material to a scope of gadgets, for example, dental inserts, listening devices, protheses, specially designed knee and hip inserts, and surgical instruments.

Another pattern empowered by 3D printing is mass customization, in that various individualized things can be created at the same time, sparing time and vitality while enhancing producing effectiveness.3D printing innovations have opened up the abilities for customization in a wide assortment of utilizations in the medicinal field. Utilizing bio-good and medication contact materials, therapeutic gadgets can be created that are impeccably suited for a specific person.

3D Printing in Healthcare Conference, organized by MnM Conferences, scheduled on 20th & 21st October 2016 in Amsterdam, Netherlands aims at providing platform to experts from hospitals, academia, and government institutions discussing the innovations, challenges, and future aspects of 3D printing technologies in healthcare.

Key highlights:

• Panel : Exploring benefits by high implementation of 3D printing technology in hospitals
• Introduction to innovations in 3D printing materials and technology
• Innovations in complex surgery planning
• Use of 3D imaging and modeling for developing medical devices
• Case studies on successful implementation of 3D printing in cardiac, maxillofacial, dental, and trauma surgeries
• Master Class : Medical Engineering on Complex virtual surgical planning

For more information please contact Ajay at ajay.nimbalkar@mnmconferences.com | +91 20 6708 0285
Why attend

• Learn: A chance to learn from the best practices by experts in the industry
• Network: Meet and discuss with over a 100 industry peers
• Gain competitive edge: Interactive technologies that are effectively enhancing patient safety
• Identify: emerging trends in Research & Innovation

Who should attend

Surgeons, Doctors, Professors, Researchers, and Practitioners from Hospitals and Academic Institutions related to:
• Neurosurgery
• Maxillofacial surgery
• Cardiovascular surgery
• Dental surgery
• Orthopedics
• Oral surgery
• Biomedical engineering
• Biomechanics
• Regenerative medicine
• Diagnostic tools
• Radiology

Who Should Sponsor

• Advanced Raw material manufacturers and equipment suppliers
• 3D printing service providers:
  • 3D Scanners
  • 3D Imaging
  • 3D Printed Anatomic models
  • Surgery Implants and prosthetics
  • Surgery guides
• Software service providers
  • 3D modelling
  • Surgical planning
  • Virtual reality training
• 3D printing product manufacturers
• Consultants and design engineers

Why Sponsor

• Showcase your expertise to industry and academia professionals
• Network with decision makers from hospitals, universities, and research institutions
• Prearranged one-on-one meetings
• Pre-event marketing and branding support
• Pre and post events workshop options available
• Exhibit or launch upcoming tools and technologies

Speaker Panel:

• Prof. Dr. Jules Poukens, Cranio-maxillofacial Surgeon Zuyderland Medical Center, Netherlands
• Dr. Bon Verweij, Neurosurgeon, UMC Utrecht, Netherlands
• Prof. Dr. Nico Verdonschot, Director of Biomechanics, Radboud University Nijmegen Medical Centre, Netherlands
• Prof. Dr. Maurice Mommaerts, Head, Department of Cranio-maxillofacial Surgery, University Hospital Brussels, Belgium
• Dr. Boyd Goldie, Consultant Orthopaedic Surgeon, Holly House Hospital, UK
• Dr. med. dent Jan Wolff, Head of the 3D Innovation Lab, VU University Medical Center, Netherlands
• Dr. Matthieu De Beule, Professor of Biomechanics, Ghent University
• Dr. Yijin Ren, Chair and Program Director, Department of Orthodontics, University of Groningen, Netherlands
Day 1, 20th October 2016

08:00  Registration
08:55  Welcome note from MnM Conferences
09:00  Opening remarks from the Chairperson
09:10  Opening keynote: Innovations in 3D printing technology in healthcare
09:40  Panel discussion: Exploring benefits by high implementation of 3D printing technology in hospitals
  • 3D printing technology vs traditional approach
  • Application at various steps and its effectiveness
  • Impact on surgery planning and patient safety

Innovations in 3D Printing Materials

10:20  Orthopaedic applications of 3-D printing
  • Implants: Standard versus customized
  • Surgical Guides: traditional instrumentation, computer navigation, robotics and 3-D printed guides

Prof. Dr. Nico Verdonschot, Director of Biomechanics, Radboud University Nijmegen Medical Centre, Netherlands
10:50  Solution provider presentation; contact Steve at steve.h@mnmconferences.com
11:05  Morning Refreshments | One-to-One Networking Meetings
11:45  Metal 3D printing in the implant industry: challenges and opportunities
12:15  3D-Printable Antimicrobial Composite Resins
  • Bacterial biofilms in public (oral) health
  • 3D printing as part of a full digital workflow in clinical dentistry
  • Innovative 3D-Printable resins that kill bacteria on contact

Dr. Yijin Ren, Chair and Program Director, Department of Orthodontics, University of Groningen, Netherlands

Innovations in Complex Surgery Planning

12:45  Solution provider presentation; contact Steve at steve.h@mnmconferences.com
13:15  Lunch | One-to-One Networking Meetings
14:15  Case Study: Use of 3D printing technology in complex surgery planning
14:45  Pre-surgical planning using 3D printing and virtual reality

Dr. Bon Verweij, Neurosurgeon, UMC Utrecht, Netherlands
15:15  Workflow for 3D printed prosthetics and implants
15:45  Solution provider presentation; contact Steve at steve.h@mnmconferences.com
16:00  Afternoon Refreshments | One-to-One Networking Meetings
16:40  Adipose stem cells combined with 3D printing to reconstruct mandibular resection defects
  • 3D images were used in three consecutive patients to plan and reverse-engineer patient-specific saw guides and reconstruction plates using computer-aided additive manufacturing
  • Adipose tissue was harvested from the anterior abdominal walls of three patients before resection
  • ASCs were expanded ex vivo over 3 weeks and seeded onto a β-TCP scaffold with rhBMP-2
  • Constructs were implanted into patient resection defects together with rapid prototyped reconstruction plates

Dr. med. dent Jan Wolff, Head of the 3D Innovation Lab, VU University Medical Center, Netherlands
17:10  Anatomical Modeling for medical device development and validation
17:40  Computational modelling in scanning and bone fixations
18:10  Closing remarks from the Chairperson
18:20  Networking & Drinks Reception

End of Day 1
Day 2, 21st October 2016

08:15 Registration
09:00 Opening remarks from the chair
09:10 Use of 3D printing technology in robotic surgery and haptics
09:40 3D printed surgical guides with integration of soft tissue aspects

3D Imaging and modelling
10:10 Impact of 3D printed bone substitute in surgical implants
10:40 Solution provider presentation; contact Steve at steve.h@mnmconferences.com
10:55 Morning Refreshments | One-to-One Networking Meetings
11:35 The future is now – physics-based simulation opens new gates in the medical world
   Dr. Matthieu De Beule, Professor of Biomechanics, Ghent University

Case studies of successful adoption of 3D printing technology
12:05 3D printed cranio-maxillofacial implants and prosthesis: A new era!
   • 3D printed cranio-maxillofacial implants
   • 3D printed facial prosthesis
   • CAD-CAM implants
   • 3D printing in medicine
   Prof. Dr. Jules Poukens, Cranio-maxillofacial Surgeon, Zuyderland Medical Center, The Netherlands
12:45 Solution provider presentation; contact Steve at steve.h@mnmconferences.com
13:15 Lunch | One-to-One Networking Meetings
14:15 From CT scan to 3D print of fractured bones using open source software and a desktop printer
   • An affordable solution
   • Easy to follow steps
   • Applicable for any department or individual
   • Facilitates surgical planning
   • Improves patients’ understanding and consent
   Dr. Boyd Goldie, Consultant Orthopaedic Surgeon, Holly House Hospital, UK
14:45 Application of 3D printing technology in dental drill guides and implants
15:15 Assessment of various 3D printing materials in surgical implants and prosthetics
15:45 Solution provider presentation; contact Steve at steve.h@mnmconferences.com
16:00 Afternoon Refreshments | One-to-One Networking Meetings

3D printing in Prosthesis
16:40 3D printed prosthetics for regenerative human limbs
17:10 Applications of 3D Imaging and 3D Imaging in medical diagnostics
17:40 Bio-3D printer based system in vascular prosthetics
18:10 Closing Remarks from the Chair
18:20 End of Conference