World’s Biggest Conference on Healthcare 3D Printing

3D HEALS 2018 ANNUAL SUMMIT

April 20-21, 2018
San Francisco, CA 94103

BESPOKE EVENTS
845 Market St. STE 450

www.3dheals2018.com
While 3D printing is a 30-year-old technology, its consumer applications are believed to be still at infancy stage. Expiring patents, lower cost printers and materials, improved healthcare specific software allow for more players to get involved and identify new opportunities in healthcare vertical. Although still a small percentage of total manufacturing market share, the tremendous potential of healthcare 3D printing and bioprinting is undeniable.

Our first event in 2017 at UCSF was a huge success, and we welcome everyone who is actively engaged or simply interested in the application of 3D printing and bioprinting technology in the healthcare sector to join this vibrant new global community.

This includes but not limited to healthcare professionals, entrepreneurs, developers, investors, designers, and regulators.

**SCOPE & OBJECTIVES**

- **EDUCATE THE COMMUNITY** about the innovations and applications of healthcare 3D printing.
- **FACILITATE** global multidisciplinary collaborative innovations in healthcare 3D printing.
- **HELP** with quality control, standardization, and scaling of healthcare 3D printing
- **GET CONNECTED** to attendees and community:
  - Scout Innovation
  - Hire talent
  - Create partnerships
  - Find new business opportunities
  - Learn about the latest technology and industry trends

**TOPICS**

**HOW 3D PRINTING WILL CHANGE...**

- Medicine/Dentistry
- Legal/Regulatory Landscape
- Orthotics/Prosthetics
- Bioprinting
- Emerging Tech (AR/VR, cybersecurity/blockchain, Robotics) and 3DP
- Investing in 3DP
WORKSHOP DAY

APRIL 20TH, 2018 FRIDAY

Workshop Track A

12:00 – 12:30 | REGISTRATION STARTS

12:30 – 13:00 | Healthcare Ecosystem
   Dr. Jenny Chen

13:00 – 13:30 | Bioprinting
   Dr. Mayasari Lim

13:30 – 14:00 | Hands-on Workshop: Bioprinting
   Dr. Valerie Cooper

14:00 – 14:30 | Hands-on Workshop: Digital Denture
   Dr. Valerie Cooper

15:00 – 15:30 | Hands-on Workshop: Medical Open Source Software
   Hannah Riedle

15:30 – 16:30 |

16:30 – 17:00 |

17:00 – 17:30 | 3DHEALS2018 Night Reception and Fundraising GALA: Fundraising for Limbforge and Victoria Hand Project (Separate registration) 17:30-21:30

17:30 – 18:00 | Healthcare 3D Printing in the Nonprofit World: A Global Effort

18:30 – 19:00 | Presenting: Limbforge, Victoria Hand Project, Autodesk Foundation, Nia Technologies, Doctors without Borders

Workshop Track B

12:00 – 12:30 | REGISTRATION STARTS

12:30 – 13:00 | Identifying and Protecting IP in 3D Printed Products
   Mr. Erik Birkeneder, Nixon Peabody

13:00 – 13:30 | Presentation: Biocompatible Materials
   Kate Clancy

13:30 – 14:00 | Hands-on Workshop: Bioprinting

14:00 – 14:30 |

14:30 – 15:00 |

15:00 – 15:30 | Hands-on Workshop: Digital Denture
   Dr. Valerie Cooper

15:30 – 16:30 | Open Source Software
   Hannah Riedle

16:30 – 17:00 |

17:00 – 17:30 | 3D HEALS 2018 Night Reception and Fundraising GALA: Fundraising for Limbforge and Victoria Hand Project (Separate registration) 17:30-21:30

17:30 – 18:00 | Healthcare 3D Printing in the Nonprofit World: A Global Effort

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MAIN CONFERENCE DAY

APRIL 21ST, 2018 SATURDAY

Auditorium A

7:00 – 7:30 | REGISTRATION STARTS

7:30 – 7:40 | Welcoming Note: Dr. Jenny Chen

7:40 – 8:00 | Key Note: Mr. Jeff Sorensen, CEO Terarecon

8:00 – 9:10 | 3D Printing in Medicine: Hospital Experiences
   Mr. Robert Wesley (St. Louis Children’s Hospital)
   Mr. Shannon Walters (Stanford)
   Dr. Sanjay Prabhu (Children Hospital Boston)
   Dr. Justin Ryan (Phonex Children Hospital)
   Dr. Tatiana Keili (UCSF)

9:10 – 9:20 | BREAK

9:20 – 10:20 | Polymer Materials for 3D Printing
   Dr. Amane Boydston (U Washington)
   Dr. Karsten Schlichter (Elkom)
   Mr. Rik Jacobs (NextDent, 3D Systems)
   Nagatun Mailard (Applied Materials)

10:20 – 10:30 | BREAK

10:30 – 11:30 | Bioprinting
   Dr. Melanie Mathieu (Prellis Biologics)
   Dr. Mayasari Lim (3SD, Moderator)
   Dr. Sam Wadsworth (Aspect Systems)
   Dr. Markus Reiterer (Medtronic)
   Dr. Jeff Miner (Viscient Biosciences)

11:30 – 12:20 | Legal and Regulatory Panel
   Todd Maiden (ReedSmith)
   Sameer Desai (NPI)
   Tom Anderson (Squire Patton Boggs)
   Khalid Rafi (UL)

12:20 – 12:30 | LUNCH SERVED

12:30 – 14:00 | Startup Pitch Competition & Investor Panel
   Mr. AJ Perez
   Jessica A. Zeaske (GE Venture)
   John Hartner (Digital Industrialist)
   Uri Lopatin (Assembly Biosciences)
   Tyler Benster (Asimov)
   Linda Molnar (National Science Foundation)

Auditorium B

7:00 – 7:30 | REGISTRATION STARTS

7:30 – 7:40 | Key Note: Mr. Jeff Sorensen, CEO Terarecon

7:40 – 8:00 | 3D Printing in Medicine: Hospital Experiences
   Mr. Robert Wesley (St. Louis Children’s Hospital)
   Mr. Shannon Walters (Stanford)
   Dr. Sanjay Prabhu (Children Hospital Boston)
   Dr. Justin Ryan (Phonex Children Hospital)
   Dr. Tatiana Keili (UCSF)

9:10 – 9:20 | BREAK

9:20 – 10:20 | Orthotics and Prosthesis
   Andreas Bastian (Limbforge, Autodesk)
   Dr. Nick Dechev (Victoria Hand Project)
   Jeff Huber (Standard Cyborg)
   Janis Jantrie (WIDE Tech)

10:20 – 10:30 | BREAK

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12:20 – 12:30 | LUNCH SERVED

12:30 – 14:00 | Legal Workshop: Business Considerations (12:30-13:00)
   Tom Anderson (Squire Patton Boggs, Business, IP, Regulatory)
   Michael Fruh (Squire Patton Boggs, Device Liability)
MAIN CONFERENCE DAY

April 21st, 2018 Saturday

**Auditorium A**

14:00 – 15:00  
**3D Printing in Orthopedic Care**  
Dr. Aenor Sawyer (UCSF)  
Dr. Alexis Dang (UCSF)  
Dr. Ken Trauner (Bespoke)  
Dr. Paul D’Urso (Anatomics)

15:00 – 15:10  
**BREAK**

15:10 – 16:10  
**Digital Dentistry and 3D Printing**  
Dr. Nabeel Cajee, UOP (moderator)  
Dr. Valerie Cooper, “Denture Queen”  
Dr. Michael Scherer (Loma Linda University)  
Mr. Rik Jacobs (NextDent, 3D Systems)  
Dr. Mayra Vasques (Univ of San Paolo, Brazil)

16:10 – 16:15  
**BREAK**

16:15 – 17:00  
**3D Printing and Emerging Technologies (Artificial Intelligence, AR/VR, Robotics, IoT)**  
Dr. Sanjay Prabhu (Children Hospital Boston)  
Dr. Nina Manosomi (Yomi)  
Mr. Shashi Jain (Intel)  
Dr. Jesse Courtier (UCSF)

17:00 – 17:30  
**A Conversation with Penelope Helle**  
(1st Patient with 3D Printed Titanium Sternum Implant)  
(introduced by Dr. Paul D’Urso)

**Auditorium B**

14:00 – 15:00  
**Legal Office Hour: Identified IP**  
Mr. Erik Birkeneder (Nixon Peabody)

15:00 – 15:10  
**BREAK**

15:10 – 16:10  
**Metal 3D Printing**  
Tuan TranPham (Desktop Metal)  
Oscar Hedén (Orthopaedics Application at Oerlikon)  
Dr. Ankitt Saharan (EOS North America)  
Dr. Paul D’Urso (Anatomics)

16:10 – 16:15  
**BREAK**

16:15 – 17:00  
**Artificial intelligence**  
Robotics in Digital Dentistry  
IoT and 3D Printing  
VR/AR complimenting 3D printing in Medicine

17:00 – 17:30  
**A Conversation with Penelope Helle**  
(1st Patient with 3D Printed Titanium Sternum Implant)  
(introduced by Dr. Paul D’Urso)
Mayra Vasques, PhD  
Digital Dentistry - 3D Printing - OFP/TMD - Dental Prosthesis PhD Fellow at University of São Paulo  
International: Challenges & Opportunities in the Brazilian Dental Market

Chaw Sing Ho  
Managing Director at NTUitive | Innovation Enterprise | New Ventures | Digital Transformation | Sustainability | AI  
Perspective: 3D printing in Healthcare

Nabeel Cajee, DDS  
Clinical Dentist, Adjunct Professor & Dental Ambassador at 3DHEALS  
3D Technologies Changing Dentistry; the Past, Present, & Future

Valerie Cooper, DDS, MS  
Prosthodontist  
“Denture Queen”

Jeff Huber  
Cofounder,  
Standard Cyborg  
Design Automation in O&P

Melanie Mathieu, PhD  
CEO, Founder at Prellis Biologics  
Bioprinting with living materials: How do we get from Tissues to Organs?

Markus Reiterer, PhD  
Senior Principal Scientist, Medtronic  
Will bioengineered tissues and organs solve the donor organ problem?

Jeffrey Miner, PhD  
Founder and CSO, Viscient Biosciences  
Viscient Biosciences, a 3D drug discovery engine

Rik Jacobs  
NextDent and 3D Systems Corporation  
3D Printing in Dentistry

Michael Scherer, DMD MS APC  
Board-Certified Prosthodontist & Technology Nerd  
Envisioning the Digital Dentistry Practice of Yesterday, Today, and the Future

Andreas Bastian  
Autodesk and LimbForge  
LimbForge: Person-Centered Prosthetics

Nima Massoomi, DMD, MD  
Oral and Maxillofacial Surgeon  
3D printing and Robotics, and how its revolutionizing Oral Surgical Procedures

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Prosthodontist  
“Denture Queen”

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Viscient Biosciences, a 3D drug discovery engine

Samuel Wadsworth, PhD  
Chief Scientific Officer & Co-Founder  
Aspect Biosystems  
Aspect Biosystem: Future of BioPrinting

Janis Jatnieks  
CEO/Founder, WIDE.TECH  
A VIRTUAL O&P CLINIC

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Nima Massoomi, DMD, MD  
Oral and Maxillofacial Surgeon  
3D printing and Robotics, and how its revolutionizing Oral Surgical Procedures

Mayasari Lim, PhD  
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Aspect Biosystems  
Aspect Biosystem: Future of BioPrinting

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Jessica A. Zeaske, PhD, MBA  
Director of Healthcare, GE Venture

Uri Lopatin, MD  
Chief Medical Officer/VP R&D, Assembly Biosciences
SPARKING INNOVATION THROUGH 3D PRINTING

Day 1: Identifying and Protecting IP in 3D Printed Products
Day 2: Office hours to discuss Identified IP

SPEAKERS

Linda Molnar, PhD
SBIR/STTR Program Director
National Science Foundation
Investing in High-Risk, High-Payoff Technological Innovation

John Hartner, MBA
Founder, Digital Industrialist
Innovating in Healthcare 3D Printing

Alfonso (AJ) Perez, MEng
General Manager, Cincinnati Incorporated
Raising money from VC: an entrepreneur’s perspective

Todd Maiden, J.D
Partner, Reed Smith LLP
Key Regulatory Concerns for Medical Devices Manufactured through AM Processes

Jenny Chen, MD
Founder, 3DHEALS

Erik Birkeneder, JD, MS
Partner at Nixon Peabody LLP
Day 1: Identifying and Protecting IP in 3D Printed Products
Day 2: Office hours to discuss Identified IP

Sameer Desai, JD
Assistant General Counsel, Johnson & Johnson
Legal update: Johnson and Johnson

Khalid Rafi, PhD
Lead Development Engineer - Additive Manufacturing / 3D printing at UL
Key Regulatory Concerns for Additively Manufactured Medical Devices

Oscar Hedin, MSc
Senior AM Application Engineer, Orthopaedics at Oerlikon
Metal 3D Printing in the Medical Industry

Tuan Tranpham, MEng
Desktop Metal

Ankit Saharan, PhD
Manager R&D/Applications Development, EOS
Metal 3D Printing of Medical Devices

Tyler Benster, PhD
Candidate
Co-Founder, General Partner, Asimove Ventures
3D Precision Health

Jenny Chen, MD
Founder, 3DHEALS

Tom Anderton, MS, JD
Attorney at Squire Patton Boggs LLP
Business Considerations related to 3D Printing: IP, Regulatory, and Potential Liability

AJ Boydston, PhD
Associate Professor at University of Washington
Chemists as Molecular Engineers: New Methods and Materials for 3D Printing

Karsten Schlichter
Business Development Manager, Elkem Silicones
Enhanced solutions for personalized health care applications with Silicone Elastomers Additive Manufacturing

Nag Patibandla
Vice President at Applied Materials

Jerry Evans, MSc, MBA
CEO, Nia Technologies Inc.
‘3D Printing – Using Technology for a Higher Purpose’

Safa Herfat, PhD
Assistant Professor - UCSF Orthopaedic Surgery
Evaluation of 3D Technologies for Medical Humanitarian Applications

Jerry Evans, MSc, MBA
CEO, Nia Technologies Inc.
‘3D Printing – Using Technology for a Higher Purpose’

Safa Herfat, PhD
Assistant Professor - UCSF Orthopaedic Surgery
Evaluation of 3D Technologies for Medical Humanitarian Applications
SPEAKERS

Aenor Sawyer, MD
Director UCSF Skeletal Health Service, Health Innovation & Technology in Ortho, UCSF
Orifice 3D Printing in Orthopaedic Surgery

Alexis Dang, MD
Orthopaedic Surgeon, CMO PrinterPrezz
3D Printing Models for Surgical Planning in Orthopaedics—Frontline Perspectives

Jesse Courtier, MD
Pediatric Radiologist, Augmented Reality enthusiast
Extending the reach of 3-D medical imaging

Shashi Jain, MBA, MS
IoT Innovation @ Intel
Achieving Customization at Scale with IoT

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