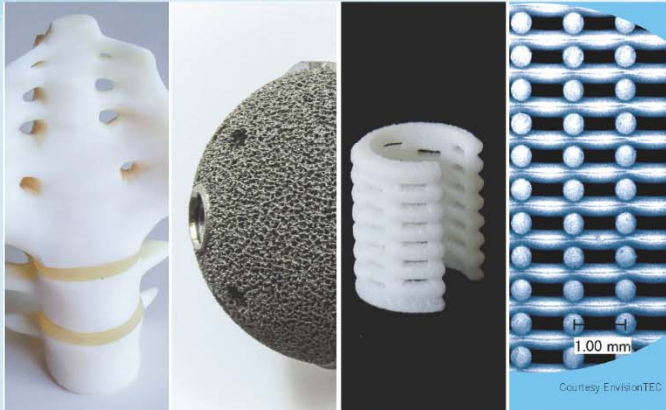


Medical Manufacturing Innovations: Additive Manufacturing and Bioprinting

May 8-11 | Exhibits May 9-11 | David L. Lawrence Convention Center | Pittsburgh, Pennsylvania



medical
manufacturing
MMISM
innovations
series

rapid + **tct**
accelerating
3D manufacturing

Event Guide

Your quick guide to all things medical at RAPID + TCT 2017

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RAPIDNEWS
publications

Medical Manufacturing Innovations at a Glance

Conference or fee registration required		Included with all registrations unless indicated	
Sunday, May 7			
1:00-4:00 PM RSNA 3D Printing Special Interest Group Meeting For more information, visit: https://www.rsna.org/3D-Printing-SIG/			
Monday, May 8			
Registration/Badge Pick-up 7:00 am – 5:00 pm			
Pre-conference Workshops 8:00 am – 1:00 pm			
Regulatory & Quality System Considerations for 3D Printed Medical Devices <i>Room 319</i> WORKSHOP LEADER: Janelle Schrot, Materialise INSTRUCTORS: Matthew DiPrima, Food & Drug Administration; Kim Torluemke, 3D Systems, Jenny Jones, Materialise; Beatrice Ogembo, American Preclinical Services; Gilbert Cortes, Johnson & Johnson	3D Printing in Hospitals: What You Need to Know <i>Room 320</i> WORKSHOP LEADER: Jonathan Morris, MD & Jane Matsumoto, MD, Mayo Clinic INSTRUCTORS: Andy Christensen, eNable; Amy Alexander, Mayo Clinic; Nicole Wake, New York University; Adam Jakus, Northwestern University	Bioprinting Fundamentals <i>Room 320</i> WORKSHOP LEADER: Roger Narayan, UNC/NCSU Joint Department of Biomedical Engineering INSTRUCTORS: Phil Campbell, Carnegie Mellon University; Prashant Kumta, University of Pittsburgh; Adam Feinberg, Carnegie Mellon University; Ken Church, nScript	RAPID + TCT Workshops of interest: <ul style="list-style-type: none"> • Fundamentals of Additive Manufacturing • Fundamentals of 3D Scanning and Modeling • Metal Part Fabrication Using Additive Manufacturing • Realizing Value with Additive Manufacturing
Facility Tours 8:00 am – 12:00 pm			
ExOne Arconic (Alcoa)			
1:30 pm – 5:00 pm RAPID + TCT Kickoff <i>ROOM: Spirit of Pittsburgh Ballroom</i>			
SME/Additive Manufacturing Community Awards			
State of America Makes Rob Gorham, America Makes			
KEYNOTE: Networked Matter and the Nature of Things Mickey McManus, Chairman, MAYA and Research felloffice of CT/Future of learning, Autodesk			
What's New: Roundup of the Latest 3D printing and 3D Scanning Products Todd Grimm, T.A. Grimm & Associates			
PANEL: Transformation of Manufacturing Moderator: Mickey McManus, Chairman, MAYA and Research Fellow Office of CTO/Future of Learning, Autodesk Panelists: Vyomesh Joshi (VJ), President and Chief Executive Officer, 3D Systems; Stephen Nigro, President – 3D Printing, HP; Greg Morris, Additive Technologies Leader, GE Aviation; Fried Van Craen, Founder and CEO, Materialise			
Tuesday, May 9			
Registration/Badge Pick-up 7:00 am – 5:00 pm			
8:00 am – 9:45 am KEYNOTE and PANEL <i>ROOM: Spirit of Pittsburgh Ballroom</i>			
PANEL: New Frontiers in Metal 3D Printing Moderator: Debbie Holton, VP Industry Strategy and Events, SME Panelists: Ric Fulop, CEO, Desktop Metal; Kyle Nel, Founder and Executive Director, Lowe's Innovation Labs, Lowe's Companies Inc; Don Jones, Director, Global Aftermarket Parts Strategy and Transformation, Caterpillar Inc.			
KEYNOTE PRESENTATION: Brilliant Factory—A New Era of Manufacturing Philippe Cochet, Executive Vice President, GE			

Tuesday, May 9 (continued)

MMI: Clinical Applications I 10:15 am – 12:15 pm—ROOM: 306-307	RAPID+TCT Sessions of Interest 10:15 am – 12:15 pm	Exhibits and Other Activities
<p align="center">MODERATOR: Adam Jakus</p>		
<p align="center">10:15 AM - 10:25 AM Low Cost and Equipment Methods to Create Flexible Anatomical Models (Novice) Joseph P. Higgins, Cardiovascular Systems Inc</p>	<p align="center">Digital Thread & Standards Power Up</p>	<p align="center">Exhibit Hours 10:00 am – 6:00 pm</p>
<p align="center">10:25 AM - 10:45 AM Development of Low Cost Hand Prostheses by Additive Manufacturing (Expert) Jorge Lino Alves PhD & Daniel Sousa Ferreira, University of Porto / Faculty of Engineering</p>	<p align="center">3D Imaging/Scanning: CT Scanning</p>	<p align="center">7:00 am – 6:00 pm MMI Display Lobby</p>
<p align="center">10:45 AM - 10:55 AM Additive Manufacturing of Silicone Prosthetic Implants with Heterogeneous Properties (Intermediate) Farzad Liravi & Ehsan Toyserkani PhD Peng, University of Waterloo</p>	<p align="center">Post Processing I</p>	<p align="center">10:30 am – 11:30 am Show Floor Tour: General</p>
<p align="center">10:55 AM - 11:05 AM Development of a Custom Ankle-Foot Orthothis (Novice) Arif Sirinterlikci PhD & April Krivoniak, Robert Morris University</p>	<p align="center">Materials I</p>	<p align="center">10:30 am – 11:30 am Tech Briefing: 3D Scanning Theater</p>
<p align="center">11:05 AM - 11:15 AM Simulation of Coronary Atrial Intervention Challenges, Learnings, and Final Methods (Intermediate) Joseph P. Higgins Cardiovascular Systems Inc</p>		<p align="center">12:30 pm – 1:30 pm Innovation Auditions Theater</p>
<p align="center">11:15 AM - 11:40 AM Using 3D Printing (Additive Manufacturing) to Produce Low Cost Simulation Models for Medical Training (Novice) Peter C. Liacouras PhD, Walter Reed National Military Medical Center, Department of Radiology</p>		<p align="center">1:20 pm – 2:00 pm Improving Time to Market in Medical Additive Manufacturing Smart Manufacturing Hub</p>
<p align="center">11:45 AM - 12:10 PM Potential Best Use Cases for 3D Printing for Cardiothoracic Surgery (Intermediate) Justin Ryan PhD, Phoenix Children's Hospital</p>		<p align="center">2:00 pm – 3:00 pm Show Floor Tour: Metals</p>
<p align="center">MMI: Clinical Applications II 2:15 pm -4:15-- ROOM: 306-307</p>	<p align="center">RAPID+TCT Sessions of Interest 2:15 pm -4:15</p>	<p align="center">Exhibits and Other Activities</p>
<p align="center">MODERATOR: Janelle Schrot</p>		
<p align="center">2:15 PM - 2:40 PM Retro Engineering the Feyh-Kastenbauer Retractor System for Transoral Robotic Surgery Using Surface Scanning & 3D Printing (Intermediate) Jonathan Morris MD, Mayo Clinic</p>	<p align="center">3D Imaging/Scanning: Surface Scanning</p>	<p align="center">2:00 pm – 5:00 pm Additive Manufacturing Standardization Forum Featuring updates from MITA (DICOM), AAMI, ASTM, ASME, AWS, SAE, and IEEE-PWG. <i>Room 310-311</i></p>
<p align="center">2:45 PM - 2:55 PM 3D Printed Wear Model to Simulate Tissue Ablation: Equipment, Materials, Technologies, and Tools Used by Interventionalists (Intermediate) Jacob Draxler & Joseph P. Higgins, Cardiovascular Systems Inc</p>	<p align="center">Direct Write Printed materials/Electronics</p>	
<p align="center">2:55 PM - 3:15 PM Single Institution Experience in 3D Modeling of Congenital Heart Defects (Novice) Robert Wesley, Nicklaus Children's Hospital</p>	<p align="center">Post Processing II</p> <p align="center">Design Considerations</p> <p align="center">Material properties I</p>	<p align="center">2:30 pm – 3:30 pm Tech Briefing: Additive Manufacturing Theater</p>

Tuesday, May 9 (continued)

MMI: Clinical Applications II <i>continued</i>		Exhibits and Other Activities <i>Continued</i>
3:15 PM - 3:40 PM Creation of Functional Finger Prostheses Combining 3D Printing with Traditional, Materials (Intermediate) Irene R. Healey, New Attitude Prosthetic Designs Inc		3:30 pm – 5:00 pm Technology Launch Pad <i>Theater</i>
3:45 PM - 4:10 PM Separating Conjoined Twins: Applying Virtual Surgical Planning and 3D Printing (Intermediate) Hayeem L. Rudy, Albert Einstein College of Medicine; and Katie Weimer, 3D Systems - Healthcare		6:00 pm – 8:30 pm Welcome Event: Heinz Field <i>(Fee required; transportation from convention center provided)</i>

Wednesday, May 10

Registration/Badge Pick-up 7:00 am – 5:00 pm		
8:00 am – 9:55 am KEYNOTE and PANEL <i>ROOM: Spirit of Pittsburgh Ballroom</i>		
KEYNOTE: New Materials for 3D Printing in Medicine: What's Next is Closer than You Think Ramille Shah PhD, Assistant Professor, Materials Science and Engineering, Assistant Professor, Surgery (Transplant Division), Northwestern University; and Sue Jordan MD PhD, Chief Resident – Plastic and Reconstructive Surgery, Northwestern Memorial Hospital		
PANEL: Medical 3D Printing Applications—Growth Beyond Surgical Guides Moderator: Sue Jordan MD PhD, Chief Resident – Plastic and Reconstructive Surgery, Northwestern Memorial Hospital Panelists: Ramille Shah PhD, Assistant Professor, Materials Science and Engineering, Assistant Professor, Surgery (Transplant Division), Simpson Querrey Institute for BioNanotechnology, Northwestern University; Carlos Carvalho, Process & Material Development, EnvisionTec; William Wagner, Director, McGowan Institute for Regenerative Medicine, Professor of Surgery, Bioengineering and Chemical Engineering, University of Pittsburgh; Fried Vancaeren, Founder, CEO, Materialise		
MMI: Biomaterials 10:15 am – 12:15 pm -- <i>ROOM: 306-307</i>	RAPID+TCT Sessions of Interest 10:15 am – 12:15 pm	Exhibits and Other Activities
MODERATOR: Jayanthi Parthasarathy		
10:15 AM - 10:40 AM Drug-eluting Polymeric Additive Manufacturing for Applications in Orthopaedics (Intermediate) Martin J. Petrak Peng, Precision ADM / Orthopaedic Innovation Centre; and Trevor C. Gascoyne Peng, Orthopaedic Innovation Centre	Process Monitoring, Control, and Qualification Material Properties II Academic research I	Exhibit Hours 10:00 am – 6:00 pm 7:00 am – 6:00 pm MMI Display <i>Lobby</i>
10:45 AM - 10:55 AM 3D Printing Soft Polydimethylsiloxane (PDMS) Elastomer Toward Custom Fit Wearable Devices (Intermediate) Sara Abdollahi & Adam Feinberg PhD, Carnegie Mellon University		10:30 am – 11:30 am Show Floor Tour: General
10:55 AM - 11:05 AM 3D Bioprinting Collagen Scaffolds for Engineering Human Cardiac Tissue (Intermediate) Andrew Lee & Adam Feinberg PhD, Carnegie Mellon University		10:30 am – 11:30 am Tech Briefing: Additive Manufacturing <i>Theater</i>
11:05 AM - 11:15 AM 3D Printing Collagen Type I Using Freeform Reversible Embedding of Suspended Hydrogels (FRESH) (Intermediate) Thomas J. Hinton & Adam Feinberg PhD, Carnegie Mellon University		11:30 am – 12:30 pm SME AM Community Panel <i>Theater</i>
11:15 AM - 11:25 AM Control of Gelatin Particle Size and Uniformity to Improve Fidelity Using FRESH 3D Bioprinting (Expert) Andrew Hudson & Adam Feinberg PhD, Carnegie Mellon University		12:30 pm -1:30 pm SME MMI Theater Hour SME Medical AM/3DP Workgroup FDA/CDRH DICOM WG-17 3D Manufacturing RSNA 3D Printing SIG <i>Theater</i>
11:25 AM - 11:45 AM Additive Manufacturing of Biodegradable Photopolymers and Ceramics (Intermediate) Johannes Benedikt PhD, Lithoz GmbH		1:00 pm – 6:00 pm Poster Session

Wednesday, May 10 *(continued)*

MMI: Biomaterials <i>continued</i>		Exhibits and Other Activities <i>continued</i>
11:45 AM - 12:10 PM Additive Manufacturing of Polymeric Biosensors and Drug Delivery Devices(Intermediate) Roger NarayanUNC/NCSU, Joint Departmentof Biomedical Engineering		1:20 pm -2:00 pm Reinventing Possibilities in Manufacturing of Medical Devices <i>Smart Manufacturing Hub</i>
MMI: Quality, Regulatory & Implants 2:15 pm – 4:15 pm-- <i>ROOM: 306-307</i>	RAPID+TCT Sessions of Interest 2:15 pm -4:15 pm	2:15 pm – 3:15 PM Show Floor Tour: Medical Applications
MODERATOR: Roger Narayan	New Processes Power Up	2:30 pm – 3:30 PM Tech Briefing: 3D Scanning <i>Theater</i>
2:15 PM - 2:40 PM Quality Strategy Approach for Additive Manufacturing (Intermediate) Gilbert A. Cortes, Johnson & Johnson	Quality and Inspection Materials II New Processes Power Up	3:30 pm – 5:00 pm Technology Launch Pad <i>Theater</i>
2:45 PM - 3:10 PM A Study on Removal of Additive Manufacturing Residue from Complex Parts (Expert) Matthew DiPrima & James Coburn, US Food & Drug Administration	Quality and Inspection Materials II	4:30 pm -5:00 pm 3D Fashion Show <i>Design Studio</i>
3:15 PM - 3:40 PM Addressing Challenges in Custom Orthopedic Implants Using Additive Manufacturing (Novice) Maryam Jahanzad & Guha Manogharan PhD, Pennsylvania State University		5:00 pm – 6:00 pm Show Floor Networking Reception
3:45 PM - 4:10 PM Anisotropic Behaviors of 3D Printed Dental Jaw Bone Implants (Intermediate) Xiong Yu PhD PE & Russel Wang, Case Western Reserve University		

Thursday, May 11

Registration/Badge Pick-up 7:00 am – 1:00 pm		
8:00 am – 9:45 am KEYNOTE and PANEL <i>ROOM: Spirit of Pittsburgh Ballroom</i>		
PANEL: So Where Do We Go from Here? Moderator: James Woodcock, Head of Content, The TCT Group Panelists: Mark Cotteleer, Managing Director, Deloitte; Todd Grimm, President, T. A. Grimm & Associates, Inc; Graham Tromans, Owner and Principal Industry Consultant, GP Tromans Associates; Robin Wilson, Head of Manufacturing, Innovate UK		
KEYNOTE: The Future of Additive Manufacturing and 3D Printing Terry Wohlers, Principal Consultant and President, Wohlers Associates, Inc.		
MMI: Metals 10:15 am – 12:15 pm-- <i>ROOM: 306-307</i>	RAPID+TCT Sessions of Interest 2:15 pm – 4:15 pm	Exhibits and Other Activities
MODERATOR: Alejandro Espinoza	Material Properties III	Exhibit Hours 10:00 am – 2:00 pm
10:15 AM - 10:40 AM Additive Manufacture of Stiffness Matched Skeletal Fixation Devices (Expert) David Dean PhD, The Ohio State University	Materials III Material Properties III	7:00 am – 2:00 pm MMI Display <i>Lobby</i>
10:45 AM - 11:10 AM Design Considerations and Capabilities for Implants Manufactured with Integrated Porous Structures (Intermediate) Oscar Hedin, Arcam AB	Materials III	10:15 am – 11:00 am Tech Briefing: 3D Printing in Medicine <i>Theater</i>

<p>MMI: Metals <i>(continued)</i> 10:15 am – 12:15 pm-- ROOM: 306-307</p>		<p>Exhibits and Other Activities <i>(continued)</i></p>
<p>11:15 AM - 11:40 AM Different Metal Additive Manufacturing Laser Methods Compared to EBM for Serialized Production of Orthopedic Implants (Intermediate) Emanuele Magalini, Eurocoating s.p.a.</p>		<p>11:00 am – 12:00 pm Show Floor Tour: Medical Advancements</p>
<p>11:45 AM - 12:10 PM Effect of Powder Morphology on Mechanical Properties of Cobalt-Chrome Alloy for the Dental Industry by Laser Powder Bed Fusion (Intermediate) Ivy Li CMfgE, Material Technology Innovations Co Ltd</p>		<p>11:30 am – 12:30 pm Technology Launch Pad <i>Theater</i></p>
<p>Facility Tours 1:00 pm – 4:00 pm</p>	<p>1:00 pm – 5:00 pm SME Medical Additive Manufacturing 3D Printing Workgroup Meeting ROOM: 319</p>	
<p>Arconic (Alcoa) Bally Design/MAYA Design</p>	<p>Additional registration (no fee) required REGISTER HERE: www.sme.org/medical-am3dp-workgroup</p>	

Medical Additive Manufacturing Resources

Stay up to date throughout the year with these resources.

- www.sme.org/medical-additive
 - Technology summaries, articles, suppliers, YouTube playlist, more
 - Standards: www.sme.org/am3dp
 - Tech papers: www.sme.org/am3dptech
 - SME Medical AM/3DP Workgroup: www.sme.org/medical-am3dp-workgroup
- Springer Open Journals
 - 3D Printing in Medicine: <http://www.springer.com/medicine/radiology/journal/41205>
 - 3D-Printed Materials and Systems: <http://www.springer.com/materials/journal/40861>
- RSNA 3D Printing Special Interest Group: <https://www.rsna.org/3D-Printing-SIG/>

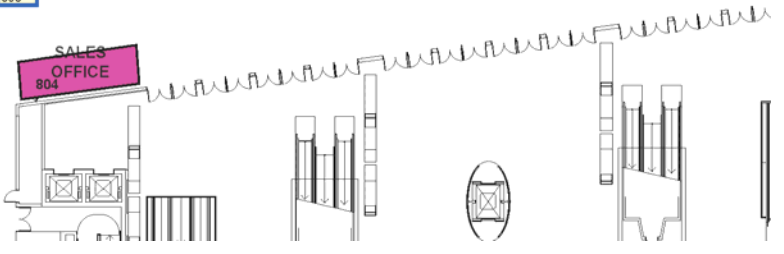
Hall A

DESIGN STUDIO
329

CONCESSIONS

POSTER SESSION
(WED ONLY)
409

Usher Precip 555	ISQUARED 654	Free man 655	Ophir Spiric 754	3D Metal 755	Admatec 854	Youngtown 853	Autonomous 954	ACTech 1054	Eican 1055	Bullitt 1155	Auber 1254	Techni 1255	Halix 1354	Perry 1454	CAD 1454
U.S. Army 553	Additive 652	Rosler 653	Develop 752	Magnesium 753	Tech Briefs 852	Print 851	General 952	Digital 1051	AMUG 1053	HK Tech 1153	Catalyst 1252	Heaton 1253	Romanoff 1353	Eirich 1453	IMR 1452
Penn State 551	Aurora 650	Nexo 651	Design 750	R-VI 751	Roboz 850	AMP 849	Singapore 950	Inovar 1050	Chem 1051	Lewell 1151	Dunlop 1250	Materi 1251	1350	Poly 1351	Add 1450
NCSM 547	Nopology 648	Naber 649	Marka 748	Direct 749	Clanco 846	LINK 847	3D 945	3Dillig 1049	Wipro 1047	Inert 1147	Stacker 1246	1249	1348	Arconic 1347	Manuforged 1446
US 541	YXION 649	Kyrpiling 637	Hexagon 742	H.C. Starck 743	3rd 842	Lithoz 843	3DSIM 942	Washi 943	Blender 1041	Logjet 1141	TRUMPF 1237	1237	1337	1341	1440
OR 537	Lasertechnology Inc	Blaschke 736	Vader 740	Advanced 741	T-M 840	TUV 841	LL 940	Toner 941	Blender 1037	BigRep 1137	1137	1237	1337	1341	1440
University 529	Wenzel 628	M Braun 629	Shubert 728	DWS 729	Ultimaker 829	Raise 929	Covestro 1029	Dismore 1129	FARO 1229	Concept 1327	1327	1327	1327	1327	1327
Silicones 527	Baker 626	US Metal 627	Microtac 726	Scan 727	Filament 826	Ninjabot 927	TIGER 1026	Oxford 1127	LPW 1223	Optomec 1323	1323	1323	1323	1323	1323
Wenon 523	Vender 622	German 623	Sci & Tech 722	LSI 725	RAMP 824	Shenzhen 823	BOFA 922	Imposible 1023	3D Print 1123	1223	1223	1223	1223	1223	1223
Lancaster 519	Matte 618	L-DEVO 617	Angli 716	Preair 717	VAC- 818	RPM 817	Hybrid 916	Polymaker 1017	Solid 1117	RePli 1218	DDM 1217	Scaky 1316	1317	1416	1416
HAD 517	HRL 616	Pensa 615	CNPC 714	Protocam 715	Vorti- 816	Atlant 815	Hybrid 914	RP Sales 917	Phasi 1117	Form 1218	Cincinnati 1217	1316	1317	1416	1416
Additive 515	Keypoint 614	Body 613	PES 712	Tech 713	MaxiBlast 812	Cinquest 811	EMS 910	Carpe 915	Miller 911	3D 1014	1013	1112	1112	1112	1112
Coex 513	Additive 612	Penn 611	United 710	Lottit 711	Rapid 810	1013	1112	1112	1112	1112	1112	1112	1112	1112	1112
CM 511	Profound 611	EXOVA 609	Chem 708	Tipro 709	808	811	910	911	911	911	911	911	911	911	911

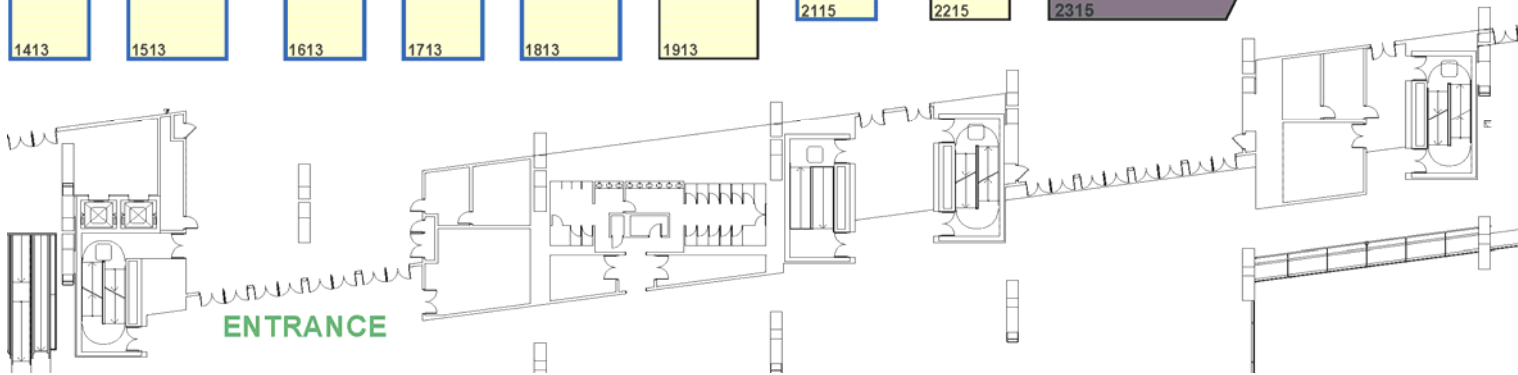


To find resources for Medical Manufacturing Innovations, visit the exhibitors with blue borders.

Hall B

Hall C

<table border="1"> <tr><td>3DCeram</td><td>Newpro3D</td></tr> <tr><td>1453</td><td>1552</td></tr> <tr><td>ATI Solid Fusion</td><td></td></tr> <tr><td>1451</td><td>1550</td></tr> <tr><td>KNOWLEDGE BAR</td><td></td></tr> <tr><td>1447</td><td></td></tr> </table>	3DCeram	Newpro3D	1453	1552	ATI Solid Fusion		1451	1550	KNOWLEDGE BAR		1447		<table border="1"> <tr><td>SWECO Photocan tric3D</td></tr> <tr><td>1553</td></tr> <tr><td>PTM & W</td><td>1650</td></tr> <tr><td>1551</td><td></td></tr> <tr><td>Midwest Composite Technologies</td></tr> <tr><td>1547</td></tr> </table>	SWECO Photocan tric3D	1553	PTM & W	1650	1551		Midwest Composite Technologies	1547	<table border="1"> <tr><td>Ruwa c</td><td>Stran gres</td></tr> <tr><td>1655</td><td>1754</td></tr> <tr><td>1653</td><td>Solar Atmo</td></tr> <tr><td></td><td>1752</td></tr> <tr><td>Smarr ech</td><td>Pres sure</td></tr> <tr><td>1651</td><td>1750</td></tr> <tr><td>VERBA M AMERICAS LLC</td><td>3D Material Technology</td></tr> <tr><td>1647</td><td>1746</td></tr> </table>	Ruwa c	Stran gres	1655	1754	1653	Solar Atmo		1752	Smarr ech	Pres sure	1651	1750	VERBA M AMERICAS LLC	3D Material Technology	1647	1746	<p>3D PLAYGROUND</p> <p>1747</p>		<table border="1"> <tr><td>LA Information</td><td>GeoCorp Inc</td></tr> <tr><td>2153</td><td>2252</td></tr> <tr><td>Spatis</td><td>NEL Analyt</td></tr> <tr><td>2151</td><td>2250</td></tr> <tr><td>Arburg Inc</td><td>3DEO</td></tr> <tr><td>2147</td><td>2246</td></tr> </table>	LA Information	GeoCorp Inc	2153	2252	Spatis	NEL Analyt	2151	2250	Arburg Inc	3DEO	2147	2246	<table border="1"> <tr><td>Kinetti S</td><td>SAS Axis</td></tr> <tr><td>2255</td><td>2354</td></tr> <tr><td>MSC Software</td><td>Identif 3D</td></tr> <tr><td>2251</td><td>2352</td></tr> <tr><td></td><td>Ideal Techn</td></tr> <tr><td></td><td>2350</td></tr> <tr><td>Russell Finex</td></tr> <tr><td>2247</td></tr> </table>	Kinetti S	SAS Axis	2255	2354	MSC Software	Identif 3D	2251	2352		Ideal Techn		2350	Russell Finex	2247	<table border="1"> <tr><td>Talro Nippon Sano</td><td>Tekna</td></tr> <tr><td>2353</td><td>2452</td></tr> <tr><td>Gopro to Inc</td><td>Extrude</td></tr> <tr><td>2351</td><td>2450</td></tr> <tr><td>Makergear</td></tr> <tr><td>2347</td></tr> </table>	Talro Nippon Sano	Tekna	2353	2452	Gopro to Inc	Extrude	2351	2450	Makergear	2347	<p>SMART MANUFACTURING HUB</p> <p>2547</p>	
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In the exhibit hall, look for floor stickers in the aisle to find Medical Manufacturing Innovations Exhibitors.

Booth Number					
523	Xiamen Raco Electronic Technology Co. Ltd.	929	Shanghai Fusion Tech Co. Ltd	1637	Formlabs
537	OR Lasertechnology Inc	937	3D Platform	1650	Photocentric3D
555	Visser Precision	942	3DSIM	1655	Ruwac
608	Profound3D	943	Washington Mills Ceramics	1713	SLM Solutions NA Inc
617	L-DEVO Japan	947	STARDUST MATERIALS LLC	1727	Autodesk
623	German Reprap	1010	Rize, Inc.	1737	Carbon
626	Baker Industries	1013	Nscript Inc	1746	3D Material Technologies
712	PES Testing	1017	Polymaker	1813	EnvisionTEC Inc
713	Tech Cast LLC	1026	Sigma Labs Inc	1823	Additive Industries
714	CNPC Powder North America Inc	1037	Jesse Garant Metrology Center	1837	GKN Powder Metallurgy
715	Protocam	1046	Polyrix Inc	1923	Fusion3
716	Agile Manufacturing Inc	1047	Wipro Ltd	1926	Afinia 3D
725	LSN Diffusion LTD	1113	Oriental Motor USA Corp	2115	Arcam AB
728	Stratasys Direct Manufacturing	1126	TIGER-VAC USA INC	2119	Advanced Powders
729	DWS SRL	1137	BigRep America Inc	2127	GPI Prototype & Manufacturing Services Inc
743	H.C. Starck Gmbh	1212	Hangzhou Shining 3D Tech Co Ltd	2147	Arburg Inc
746	SICAM Corporation	1223	LPW Technology Inc	2223	Sodick
748	Markany Inc	1226	Synergeering Group	2237	GE Additive
751	II-VI	1229	FARO Technologies Inc	2242	Direct Dimensions Inc
808	Rapid Prototyping Services	1237	TRUMPF Inc	2243	C & A Tool Engineering
811	Cimquest Inc	1250	Dunlee - Smit Röntgen	2246	3DEO
818	VAC-U-MAX	1313	Essentium Materials LLC	2250	NSL Analytical Services Inc
822	Forecast 3D	1327	Concept Laser Inc	2252	GeoCorp Inc
823	Shenzhen Esun Industrial Co Ltd	1337	Microtek Finishing	2255	Kinetic Vision
829	Ultimaker	1351	Polygonica - MachineWorks	2331	TCT Group
843	Lithoz Gmbh	1355	Perryman Company	2342	Hoganas
846	Clemco Industries Corp	1413	EOS of North America	2343	Laboratory Testing Inc
847	LINK3D	1416	Proto Labs Inc	2347	Makergear
915	Carpenter Technology Corp	1429	CIDEAS Inc	2436	Plural Additive Manufacturing
917	RP Sales America, Inc and UnionTech, Inc	1450	Added Scientific	2440	Granta Design Ltd
926	Intamsys Technology Co LTD	1513	Stratasys Inc	2452	Tekna
		1522	North Star Imaging Inc	2517	HP Inc
		1613	Materialise	2525	3D Systems
				2637	Methods Machine Tools Inc

3D Material Technologies 1746

810 Flight Line Blvd
 Deland, FL 32724-2055
 United States
 P: 386-626-0006

3D Platform 937

6402 E Rockton Rd
 Roscoe, IL 61073-8812
 United States
www.3dplatform.com
 P: 800-962-8979

3D Systems 2525

333 Three D Systems Cir
 Rock Hill, SC 29730-7811
 United States
www.3dsystems.com
 P: 803-326-3900

3DEO 2246

852 Santee St
 Los Angeles, CA 90014
 United States
www.3deo.com
 P: 310-400-6382

3DSIM 942

1794 Olympic Pkwy Ste 110
 Park City, UT 84098-6388
 United States
 P: 435-363-5197

3DSIM provides predictive simulation tools that help medical professionals understand how their metal AM designs will react to the AM process before physically building the part; drastically improving the probability of first pass success, which is critical in time sensitive implant situations. Users can also improve efficiency in developing new materials and improving manufacturing of AM components through simulation. Confidence rises with knowledge and 3DSIM provides that necessary insight!

Added Scientific 1450

Coates Building University Park
 Nottingham NG7 2RD
 United Kingdom
www.addedscientific.com

We work with the pharmaceutical and medical industries to help develop AM processes and materials to manufacture pharmaceutical dosage forms and advanced design methodology for next generation prosthetics and medical devices.

Additive Industries 1823

Postbus 30160
Eindhoven 5600 GA
Netherlands
additiveindustries.com
P: 31(402)1800660

Advanced Powders 2119

3765 Rue La Vérendrye
Boisbriand, QC J7H 1R8
Canada
www.raymor.com
P: 450-434-1004

Afinia 3D 1926

8150 Mallory Ct
Chanhassen, MN 55317-8586
United States
www.afia3d.com
P: 952-556-1600

Afinia 3D desktop printers and 3D scanners are utilized in medical applications to create prosthetics, medical models, and fixtures. The EinScan-Pro is a handheld 3D scanner that captures 3D detail for a price under \$5000 and the H800 3D printer can create models as large as 10x8x8 inches and is under \$2000.

Agile Manufacturing Inc 716

920 W 10th St
Pella, IA 50219-7860
United States
www.additive3d.parts
P: 641-780-5385

Arburg Inc 2147

644 West St
Rocky Hill, CT 06067-3414
United States
www.arburg.com
P: 860-667-6500

Arcam AB 2115

Kroklaetts Fabriker 27A
Moelndal, Vaestra Goetalands Laen 431 37
Sweden
www.arcam.com
P: 46 31710320

Arcam's EBM technology is used for the production of standard as well as custom orthopedic implants. The Arcam EBM technology allows implant industries to manufacture innovative products and at the same time reduce production costs and lead times. It is particularly cost-efficient for volume production of press-fit implants with advanced Trabecular Structures™. Solid and porous sections of the implant are built in the same process step, eliminating the need to apply coatings.

Autodesk 1727

PO Box 8250
San Rafael, CA 94912-8250
United States
www.autodesk.com/
P: 415-507-5000

Autodesk Within Medical is generative design software that optimizes 3D printing of medical implants for the orthopedic industry. The software allows biomedical engineers to create orthopedic implants with micro-lattice porous structures that help

properly connect the implants to living bone (osseointegration), and promote development of blood vessels in the surrounding tissue (vascularization) to facilitate healing.

Baker Industries 626

16936 Enterprise Dr
Macomb, MI 48044-1006
United States
P: 586-764-7763

BigRep America Inc 1137

Gneisenastr 66
Berlin 10961
Germany
www.bigrep.com
P: 4.9302084826e+012

C & A Tool Engineering 2243

PO Box 94
Churubusco, IN 46723-0094
United States
www.catool.com
P: 914-572-2939

Carbon 1737

1089 Mills Way
Redwood City, CA 94063-3119
United States
carbon3d.com
P: 650-285-6307

Carbon, a Silicon Valley-based additive manufacturing company, offers modern hardware, software and functional resins, enabling manufacturers of medical therapies to move beyond prototyping to direct digital manufacture. With a range of sterilizable, biocompatible, engineering resins, Carbon provides the ability to transition from design iteration to manufacture on a single platform, opening up tremendous opportunities for device manufacturers, dental laboratories, and diagnostics companies.

Carpenter Technology Corp 915

101 Bern St
Reading, PA 19601-1203
United States
www.carttech.com
P: 800-654-6543

Carpenter Powder Product's powder metal alloys are designed for special applications in the medical industry. Customized CarTech Micro-Melt alloys provide superior performance for medical products such as orthopedic implants, fracture fixation devices and surgical instruments.

CIDEAS Inc 1429

125 Erick St Ste A115
Crystal Lake, IL 60014-4500
United States
www.buildparts.com
P: 847-639-1000

For over 10 years, CIDEAS has been producing anatomical models for use in pre-surgery as well as training for doctors. Utilizing CT scans, the enlarged SLA parts are typically built in clear and Polished to view the internal cavities, as well as, flow.

Cimquest Inc 811

3434 Us Highway 22 Ste 130
Branchburg, NJ 08876-6011
United States
www.cimquest-inc.com
P: 732-699-0400

Clemco Industries Corp 846

1 Cablecar Dr
Washington, MO 63090-1122
United States
www.clemcoindustries.com
P: 636-239-4300

We manufacture equipment used to clean and improve the surface finish of parts made with additive manufacturing processes.

CNPC Powder North America Inc 714

Unit 204 23 Fourth Street
Charlottetown, PE C1E 2B4
Canada
P: 902-316-0218

As a metal powder supplier, we work with our clients to develop customized powder solutions that can meet the needs of the medical industry.

Concept Laser Inc 1327

1000 Texan Trl Ste 150
Grapevine, TX 76051-3780
United States
www.conceptlaserinc.com
P: 817-328-6500

From quick-turn prototyping to large-scale series production, Concept Laser printers are becoming a standard solution for medical manufacturers. Our 3D metal printers enable the production of complex, trabecular, bio-analogous structures for enhanced osseo- and vascular integration. LaserCusing® gives the manufacturer the capability to produce highly customized implants, foam, or lattice structures that are specific to a patients needs.

Direct Dimensions Inc 2242

10310 S Dolfield Rd Ste B
Owings Mills, MD 21117-3558
United States
P: 410-998-0880

Direct Dimensions works closely with clinicians to create cosmetically accurate prosthesis, usually for the face, and also fingers, hands, toes, feet, and other. Come by our booth to see samples and learn about this process. We've been helping medical professionals from Johns Hopkins, Walter Reed, and others for years.

Dunlee - Smit Röntgen 1250

Veenpluis 6
Best 5684 PC
Netherlands
www.smitroentgen.com
P: 31(402)762707

DWS SRL 729

Via della Meccanica, 21
Thiene, VI 36016
Italy
www.dwssystems.com
P: 39-044-5810810

DWS features six high-performance 3D printers, designed for dentists and large labs. The company's materials are developed for: crowns, bridges, partials, digital models, surgical guides (class I)*, 3D medical imaging and the biocompatible material (class IIA)* for restorations. *(as for the European Council Directive 93/42/EEC, waiting for extra-EU approval).

EnvisionTEC Inc 1813

15162 S Commerce Dr
Dearborn, MI 48120-1237
United States
www.envisiontec.com
P: 313-436-4300

EOS of North America 1413

28970 Cabot Dr Ste 700
Novi, MI 48377-2978
United States
www.eos.info
P: 248-306-0143

The EOS Additive Manufacturing process allows for fast, flexible, and cost-effective production of individual or small customised lots of medical devices and instruments. Unlike conventional manufacturing methods, EOS Additive Manufacturing allows maximum design flexibility, enabling the implementation of innovative medical functions. Thus, test series, prototypes, patient-specific one-off parts and small production runs can be manufactured at a profit.

Essentium Materials LLC 1313

5880 Imperial Loop Ste 10
College Sta, TX 77845-6442
United States
www.essentiummaterials.com
P: 979-777-2354

FARO Technologies Inc 1229

250 Technology Park
Lake Mary, FL 32746-7115
United States
www.faro.com
P: 407-333-9911

FoldStar Inc 1653

21 Longview Dr
Holmdel, NJ 07733-1641
United States
www.foldstar.com
P: 732-539-0905

FoldStars patented software and machine design technology facilitates the creation of complex fully reversible deterministic folding tessellations for sheet and cylinder materials.

Forecast 3D 822

2221 Rutherford Rd
Carlsbad, CA 92008-8815
United States
P: 760-929-9380

Formlabs 1637

35 Medford St Ste 201
Somerville, MA 02143-4237
United States
www.formlabs.com
P: 617-932-5227

Fusion3 1923

2700 Liberty Rd
Greensboro, NC 27406-4714
United States
www.fusion3design.com
P: 877-452-0010

GE Additive 2237

9701 Windisch Rd ste 100
West Chester, OH 45069
United States
www.geadditive.com
P: 513-618-5295

The medical industry uses both Concept Laser and Arcam (both part of GE Additive) machines for the development and manufacture of medical devices and implants. Arcam's electron beam melting technology has revolutionized the production of acetabular cup implants, and Concepts laser melting enables the precision necessary for complex medical parts.

GeoCorp Inc 2252

9010 River Rd
Huron, OH 44839-9523
United States

GeoCorp, Inc. currently supplies thermocouples and thermocouple wire to companies that work with the MedAccred program offered by PRI. We understand the quality required to maintain accreditation. If you're looking at the MedAccred program and have any questions please contact us. We'll be happy to help.

German Reprap 623

SW 8th St ste 204-A
Coral Gables, FL 33134
United States
www.germanreprap.us
P: 786-701-0700

GKN Powder Metallurgy 1837

Krebsoege 10
Oberbergischer Kreis 42477
Germany

Our products are used in the field of medicine for example for prostheses as well as in the field of surgical aids, for example in the form of grippers.

GPI Prototype & Manufacturing Services Inc 2127

940 W North Shore Dr
Lake Bluff, IL 60044-2202
United States
www.gpiprototype.com
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www.grantadesign.com
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P: 86-571-82999050

Shining 3D AutoScan Dental 3D Scanners capture the model and marks drawing by hand clearly, the fine details offers a reference in the digitizing design for dental technicians: http://en.shining3d.com/3d_digitizer-88.html Our EinScan-Pro Handheld 3D Scanner has a great application in custom orthotics and prosthetics by scanning the human body part: <http://www.einscan.com/single-post/2016/04/14/EinScanPro-3D-Scanning-Technology-Helps-Arm-Hurt-Patients-in-Orthotic-Solution>

Hoganas 2342

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Sweden
hoganas.com
P: 464233 -8140

HP Inc 2517

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Alpharetta, GA 30004-3895
United States
www.hp.com
P: 404-648-8772

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China

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Canada
www.jgarantmc.com
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United States

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Japan

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New York, NY 10011-5419
United States
link3d.co
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P: 513-766-5600

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19875 S Diamond Lake Rd Ste 10
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United States
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Tekna manufactures spherical Ti64 powders and spherical tantalum powders for medical additive manufacturing. These materials can be found in medical implants for example

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 Sun Prairie, WI 53590-2919
 United States
 P:

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 Bangalore 560100
 India
 www.wipro.com
 P: 91(803)0292929

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 Xiamen, Fujian 361000
 China
 www.raco3d.com
 P: 86(592)5685660

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- 3D Platform, 937
- 3D Systems, 911
- 3DEO, 2246
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- BigRep America Inc, 1137
- Carbon, 1737
- Cimquest Inc, 811
- Concept Laser Inc, 1327
- DWS SRL, 729
- EOS of North America, 1413
- Essentium Materials LLC, 1313
- Fusion3, 1923
- Hangzhou Shining 3D Tech Co Ltd, 1212
- HP Inc, 2517
- Lithoz Gmbh, 843
- Makergear, 2347
- Markforged, 911
- Media Supply Inc, 608
- Methods Machine Tools Inc, 2637
- Miller 3D, 911
- OR Lasertechnology Inc, 537
- Photocentric3D, 1650
- Plural Additive Manufacturing, 2436
- Raise3d Inc., 929
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- Sodick, 2223
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3D Scanning/Imaging

- 3D Platform, 937
- 3D Systems, 911
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Additive Manufacturing Machines & Prototyping

- 3D Material Technologies, 1746
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OR Lasertechnology Inc, 537

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Tech Cast LLC, 713

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Lithoz GmbH, 843

CNC Machines

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Coatings

Essentium Materials LLC, 1313

Composites

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Computer-Aided Engineering

(CAE3DSIM, 942

Consultants

Added Scientific, 1450
EOS of North America, 1413
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Design for Additive Manufacturing (DFAM)

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AMUG, 1053

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Measurement, Inspection & Testing

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