

AUGUST 2-5, 2015 HYNES CONVENTION CENTER BOSTON, MA



AM 3D

THE ENGINEERING BEHIND ADDITIVE MANUFACTURING & 3D PRINTING

In collaboration with the ASME International Design Engineering Technical Conferences (IDETC) and Computers & Information in Engineering Conference (CIE)

go.asme.org/3dprinting

**OUR FEATURED
KEYNOTE
SPEAKERS
ARE NOT TO BE
MISSED:**



BRUCE BRADSHAW

Vice President
of Marketing
Stratasys



JASON LOPES

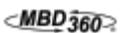
Lead Systems
Engineer
Legacy Effects



HOD LIPSON

Professor
Cornell University

**PARTICIPATING
ORGANIZATIONS
INCLUDE:**



   **Get Social #AM3D**

The American Society of Mechanical Engineers (ASME)



Who Should Attend?

If you're a Mid to Senior Level Technical Professional that works in:

- R&D
- Design
- Manufacturing
- Supply chain
- Quality control

THEN THIS EVENT IS FOR YOU!

WE'RE GIVING AWAY A 3D PRINTER ONSITE AT AM3D — STAY TUNED FOR INFO ON HOW YOU CAN WIN IT!



Why Attend AM3D Over Other Events?

1. Break Down The Silos That Restrain AM Innovation:

AM3D explores every step of the AM engineering lifecycle, from AM economics to part production and inspection.

2. Explore Applications Spanning Multiple Industries:

A cross disciplinary review of AM in Aerospace, Automotive, and Energy applications will reveal what's working.

3. Engage In World-Class Interactive Sessions & Networking:

Establish valuable relationships and exchange ideas with leading experts from industry, government and academia who share breakthroughs and provide solutions to complex business challenges in AM design, material advancements, process validation, and inspection technologies.

4. Experience Our In-Depth Agenda & Strong Speaker Faculty:

The program focuses on complex technical challenges, case studies, and demonstrations that are advancing the AM space and provide you the means to overcome AM myths and develop the methods required to be disruptive with AM.

5. Learn Design for AM:

Give your skill set an upgrade in sessions that teach you how to optimize design for AM





AM3D DELIVERS SOLUTIONS TO YOUR MOST PRESSING ISSUES

Through in-depth technical sessions and dynamic panel discussions, you'll learn best practices on:

MATERIALS SELECTION AND CERTIFICATION

EQUIPMENT SELECTION AND INVESTMENT ANALYSIS

PROCESS MONITORING TECHNOLOGIES TO IMPROVE RESULTS

POST PRODUCTION QUALIFICATION METHODS

HOW STANDARDS DEVELOPMENT WILL INCREASE DEMAND AND REDUCE RISK

THE FUTURE OF AM AND DISTRIBUTED MANUFACTURING

BREAKDOWN OF TOPICS:

DAY 1

Business Implementation, Design Tools, Standards Development

DAY 2

Optimization, Materials, Applications, Equipment Selection

DAY 3

Technology Pipeline, Part Inspection, Workforce Training

MEET OUR ESTEEMED SPEAKERS!

	KEYNOTE BRUCE BRADSHAW	Vice President of Marketing	Stratasys
	KEYNOTE HOD LIPSON	Professor	Cornell University
	KEYNOTE JASON LOPES	Lead Systems Engineer	Legacy Effects
	MARCIN BAUZA	Director of New Technology & Innovation	Carl Zeiss IMT
	JOSEPH J. BEAMAN, JR.	Professor	University of Texas Austin
	JACK BEUTH	Professor, Mechanical Engineering	Carnegie Mellon University
	DAVE EDSTROM	Chief Technology Officer	Memex Automation
	ROGER ENGLAND	Director of Materials Engineering	Cummins
	BRAD ETTER	US Sales Manager	Alicona
	BRYAN FISCHER	President	MBD360
	DANIEL FRAISER	New Business Development	Fraser Advanced Information Systems
	IAN FURGESON	Lead Engineer	FormLabs
	DONALD GODFREY	Engineering Fellow Advanced Manufacturing Engineering	Honeywell Aerospace
	WENJIONG GU	Staff Research Engineer	United Technologies Research Center
	JOHN HART	Associate Professor of Mechanical Engineering	MIT
	JENNIFER HERRON	Owner	Action Engineering
	KEVIN JURRENS	Deputy Division Chief Intelligent Systems Division	NIST
	WAYNE KING	Director of the Accelerated Certification of Additively Manufactured Metals Initiative	Lawrence Livermore National Labs
	GORDON KURTENBACH	Senior Director, Engineering	AutoDesk Research

SPEAKERS



IVAN MADERA

Chief Engagement Officer

MORF3D



JOE MANZO

Executive Officer

Titan Industries



BRENAN MCCARRAGHER *Director*

Draper Labs



FRANK MEDINA

Senior Specialist, Materials Development

Arcam



DANIEL OLIVER

Co-Founder

Voxel8



TODD PALMER

*Associate Professor of Materials Science
and Engineering*

Penn State University



MENG QU

Research Scientist

Schlumberger



DAVID ROSEN

Professor Computer Aided Engineering & Design

Georgia Tech



TIM SHINBARA

VP of Manufacturing Technology

AMT



ZACH SIMKIN

President

Senvol



JOHN SLOTWINSKI

Additive Manufacturing Development Engineer

Johns Hopkins Applied Physics Lab



BRENT STUCKER

Co-Founder

3DSIM



KRISHNAN SURESH

Associate Professor

University of Wisconsin, Madison



CINDY TETRO

Founder & Director

3DPlusMe



GRANT THOMAS-LEPORE *Director of Products at GrabCAD*

GrabCAD



MIKE VASQUEZ

Founder

3Degrees



JOHN WILCZYNSKI

Deputy Director of Technology Development

America Makes



CHRIS WILLIAMS

*Professor, Mechanical Engineering,
Engineering Education*

V-Tech DREAMS Lab



SIMIN ZHOU

VP of Digital Manufacturing Technology

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2015 PROGRAM

SUNDAY: AUGUST 2, 2015

TIME	ACTIVITY
9:00 am – 5:00 pm	Innovative Additive Manufacturing 3D Challenge (IAM3D) Student design competition
9:00 am – 5:00 pm	Innovative Design Simulation Challenge (IDSC) Student design competition
5:30 pm – 7:00 pm	Social Meet-up & Mini-talks for Early Career Engineers Networking opportunity for early career technical professionals.
TBA...	Workshop: How to Make 3D Printing Work for Your Company Mike Vasquez, Founder, 3Degrees. Advance registration required.

MONDAY: AUGUST 3, 2015

TIME	ACTIVITY
8:00 am – 8:50 am	AM Industry Overview — Technology and Business Landscape A. John Hart, Professor of Mechanical Engineering, MIT Ivan Madera, Chief Engagement Officer, MORF3D
8:50 am – 9:40 am	Economics of an AM Strategy Zach Simkin, President, Senvol Cydni Tetro, Founder and CEO, 3DplusMe
9:40 am – 10:10 am	Coffee Networking Break
10:00 am – 10:50 am	AM Implementation W. Daniel Fraiser, New Business Development., Fraser AIS Mike Vasquez, Founder, 3D Printing Reports
10:50 am	Exhibit Hall Opens + Poster Session
12:30 pm – 2:00 pm	Keynote Luncheon For All Attendees Jason Lopes, Lead Systems Engineer, Legacy Effects Hod Lipson, Professor / Author, Cornell
2:00 pm – 2:50 pm	Design Methods: Candidate Part Selection Joe Manzo, Executive Officer, Titan Industries Frank Medina, Senior Specialist, Materials Development, Arcam AB
2:50 pm – 3:30 pm	Design Methods: 3D Product Definition Based Design & Multiphysics for AM Bryan Fischer, President, MBD360 Brent Stucker, Professor / Co-Founder, University of Louisville / 3DSIM
3:40 pm – 4:10 pm	Coffee Networking Break
4:10 pm – 5:30 pm	PANEL: Standards, Pathways for Progress <i>Moderator: Darrell Wallace, Professor, Youngstown State University</i> Dave Edstorm, Chief Technology Officer, Memex Automation John Slotwinski, AM Dev. Engineer, Johns Hopkins Applied Physics Lab Jennifer Herron, Owner, Action Engineering Kevin Jurrens, Deputy Division Chief Intelligent Systems Division, NIST Simin Zhou, VP of Digital Manufacturing Technologies, UL
6:00 pm – 9:00 pm	Kennedy Center Reception (Transportation Provided)

PROGRAM

TUESDAY: AUGUST 4, 2015

TIME	ACTIVITY
8:00 am – 9:30 am	Born in Boston: Local AM Innovations Shaping the World Grant Thomas-Lepore, Director of Products, GRABCAD Ian Ferguson, Lead Engineer, FormLabs Daniel Oliver, Co-Founder, Voxel8
9:30 am – 10:20 am	Design Methods: CAD / CAE Tools David Rosen, Professor CAE and Design, Georgia Tech Gordon Kurtenbach, Senior Director of Research, Autodesk
10:20 am – 11:10 am	Design Methods: Topology Optimization Krishnan Suresh, Associate Professor, University of Wisconsin, Madison Dan Erno, Mechanical Engineer, GE Global Research
11:10 am – 11:40 am	Coffee Networking Break
11:40 am – 12:40 pm	Materials Design and Microstructures Wayne King, Director of the Accelerated Certification of Additively Manufactured Metals Initiative, Lawrence Livermore National Laboratory Meng Qu, Research Scientist, Schlumberger
12:40 pm – 2:00 pm	Luncheon For All Attendees
2:00 pm – 3:00 pm	Case Studies: Industrial Applications of AM Roger England, Director of Materials Engineering, Cummins Brenan McCarragher, Director, Draper Labs
3:00 pm – 3:30 pm	Coffee Networking Break
3:30 pm – 4:20 pm	AM Equipment Technology Review Tim Shinbara, VP of Manufacturing Technology, AMT
4:20 pm – 5:10 pm	PANEL: AM Roadmaps <i>Moderator: David Rowatt, Research Director, Schlumberger</i> John Wilczynski, Deputy Director of Technology Development, America Makes Todd Palmer, Professor Materials Science & Engineering, Penn State
5:30 pm – 8:00 pm	Sponsor & Exhibitor Appreciation Reception



2015 PROGRAM (CONTINUED)

WEDNESDAY: AUGUST 5, 2015

TIME	ACTIVITY
8:00 am – 9:30 am	PANEL: AM Founders and Futurists <i>Moderator: Hod Lipson, Professor, Cornell University</i> Joseph Beaman, Professor, University of Texas, Austin David Rosen, Professor CAE and Design, Georgia Tech Chris Williams, Professor of Mechanical Engineering, Virginia Tech DREAMS Lab Brent Stucker, Co-Founder, 3DSIM
9:30 am – 10:20 am	(IDETC) AM Research: Technologies of Tomorrow Speaker(s) to be named
10:20 am – 10:50 am	AM Validation & Verification: Part 1 Jack Beuth, Professor of Mechanical Engineering, Carnegie Mellon University Don Godfrey, Engineering Fellow-Advanced Manufacturing Eng., Honeywell Aerospace
10:50 am – 11:20 am	Coffee Networking Break
11:20 am – 12:30 pm	AM Validation & Verification: Part 2 Marcin Bauza, Director New Technology & Innovation, Carl Zeiss IMT Brad Etter, US Sales Manager, Alicona
12:40 pm – 3:30 pm	Workshop: America Makes Workforce/Education Roadmap Education and training needs for AM workforce development This is a special by invitation-only session Lunch to be provided
12:30 pm	** AM3D 2015 Concludes **
3:00 pm – 5:00 pm	Tour of MIT Labs (Transportation Provided)

Questions?

Email: am3d@asme.org

Note: Full registration includes access to all AM3D / IDETC / CIE conference session (including workshops and tutorials) at no additional cost.

Please see website for program details: asmeconferences.org/idetc2015

All **FULL Conference Registrants** will automatically be entered into a drawing to win a 3D Printer (Form1+). An additional 3D Printer (MakerBot Mini) will be raffled off to any attendee who completes the exhibit passport card at this year's conference exhibition.

PRICING & REGISTRATION

REGISTRATION FEES

REGISTRATION TYPE	On/Before June 1st	On/After June 2nd
Author/Presenter – ASME Member	\$680	\$770
Author/Presenter – Non Member	\$680	\$770
Student – ASME Member	\$150	\$150
Student – Non Member	\$350	\$400
Attendee – ASME Member	\$680	\$770
Attendee – ASME Life Member	\$300	\$350
Attendee – Non Member	\$830	\$950
One Day - ASME Member	\$450	\$550
One Day - Non Member	\$600	\$700

Full Conference Registration Includes: Access to all technical sessions and conference exhibit, online access to conference papers, workshops (if selected in advance), lunch on Monday, 1 lunch ticket for Tuesday (choose between 2 possible division awards luncheons), breakfast and coffee breaks on Monday, Tuesday and Wednesday. Reception on Monday and Tuesday.

One-Day Conference Registration Includes: Access to all technical sessions and conference exhibit on the day of your registration, online access to conference papers, lunch on the day of your registration (Monday or Tuesday only), breakfast and coffee breaks on day of your registration. Does not include a ticket to the Reception on Monday.

VENUE & HOTEL

VENUE

Hynes Convention Center
900 Boylston Street, Boston, MA

HOTEL

Sheraton Boston
39 Dalton Street
Boston, MA 02199
United States

ASME Group Rate: \$199

Make a reservation
1-617-236-2000 or 1-888-627-7054

Reservation Deadline: July 1, 2015**
Or once the block is sold out





 **AM
3D** 2015