OMTEC 2018
Brought to you by ORTHOWORLD®

ADVANCE PROGRAM
14th Annual Orthopaedic Manufacturing & Technology Exposition and Conference

JUNE 12-14 | CHICAGO

OMTECexpo.com
When it comes to premium branding and maximum performance, there is no substitute for the G10 Series from Gauthier Biomedical. Combining unmatched elegance with dependability, this line offers the very best in ergonomics and style.

Visit us at OMTEC Booth 207
Dear Colleague,

OMTEC is the world’s only conference exclusively serving the orthopaedic industry. With thirteen years under our belt, we are honored that OMTEC is now recognized internationally as a “must attend” event. A loyal contingent of procurement, supply chain, operations, research & development and executive-level attendees as well as business development, regulatory, quality and clinical affairs professionals unite to learn, debate, share, connect and make things happen.

Solution-driven education is the backbone of OMTEC, complemented by a robust and diversified group of exhibiting companies. Well-timed and carefully planned networking opportunities allow new partnerships to blossom and let challenging classroom topics get airtime and resolution.

The following pages provide a glimpse of who you will meet and what you will learn...but if you’ve read this far, don’t delay a moment longer; register today! We promise that you will be glad you did!

Carolyn LaWell  
Chief Content Officer  
carolyn@orthoworld.com  

Francine Bursic  
Director of Customer Care  
fran@orthoworld.com  

SCHEDULE AT A GLANCE
All times throughout are CST

**TUESDAY, JUNE 12**
- Exhibitor Move-in 8:00 a.m. – 5:00 p.m.
- Attendee Registration 12:00 p.m. – 5:00 p.m.
- Education Sessions 1:00 p.m. – 4:30 p.m.
- Customer Appreciation/Welcome Reception Joe’s Live Rosemont 5:30 p.m. – 7:00 p.m.

**WEDNESDAY, JUNE 13**
- Keynote Breakfast 7:30 a.m. – 9:00 a.m.
- Exhibit Hall Hours 9:00 a.m. – 5:30 p.m.
- Education Sessions 10:00 a.m. – 4:00 p.m.
- Networking Lunch 12:00 p.m. – 1:30 p.m.
- Networking Reception on the Exhibit Floor 4:00 p.m. – 5:30 p.m.

**THURSDAY, JUNE 14**
- Keynote Breakfast 7:30 a.m. – 9:00 a.m.
- Exhibit Hall Hours 9:00 a.m. – 2:00 p.m.
- Education Sessions 10:00 a.m. – 3:00 p.m.
- Exhibitor Move-out 2:00 p.m. – 5:00 p.m.
- Closing Reception 3:00 p.m. – 4:00 p.m.
OMTEC's attendees represent all links in the commercialization chain. The diversity is due, in large part, to executive leaders' efforts to break down departmental silos and cultivate versatile, multi-talented employees. Today's orthopaedic professional is expected to have a working knowledge far beyond his or her own job. Decision making, judgment, ideas...these are crucial to the advancement of a company, large or small. Your success is dependent upon how well you know your own job and the jobs of the people around you.

To that end, everyone at every stage of the orthopaedic commercialization chain will find value in attending OMTEC.

### FULL CONFERENCE REGISTRATION INCLUDES:
+ All education and keynotes  
+ Meals and refreshment breaks  
+ Exhibit floor access  
+ Networking and welcome receptions  
+ Special rates on BONEZONE subscriptions

For assistance registering, **Fran Bursic** is at your service!  
440.543.2101 | fran@orthoworld.com
**EXHIBITORS**

OMTEC’s exhibitors specialize in the manufacturing of implants, instruments and components. In addition, you will find providers of testing services, packaging, logistics, raw materials, surface treatments, product development, regulatory assistance and more. Exhibiting companies hail from the following countries:

Exhibitors Represent 11 Countries (82% U.S.):
- Canada
- China
- Finland
- France
- Germany
- Netherlands
- Switzerland
- Turkey
- United Kingdom
- United States
- Taiwan
- Turkey

**WHO WILL YOU MEET AT OMTEC?**

Orthopaedic device company professionals make up the majority of OMTEC’s attendees. Nearly all have purchasing authority or purchasing influence and they hail from more than 70 different companies: from the top 5 through mid-tier to start-ups. Financial analysts, academics, regulatory agencies, surgeons, consultants and non-exhibiting suppliers make up the remainder of the attendees.

Use the Capability Search to find your next new partner at OMTECexpo.com
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<td>8:00 a.m.</td>
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<td>Exhibit Hall</td>
<td>Exhibitor Registration &amp; Set up</td>
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<td>12:00 p.m.</td>
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<td>Exhibit Hall</td>
<td>Attendee Registration and Badge Pickup</td>
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<td>1:00 p.m.</td>
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<td>Room 45</td>
<td>Analyze and Optimize Your Supply Chain Operations for Higher Performance</td>
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<td>Room 49</td>
<td>Unique Device Identification: Manufacturer, Hospital and Global Implications</td>
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<td>5:30 p.m.</td>
<td>7:00 p.m.</td>
<td>Joe’s Live</td>
<td>Customer Appreciation/Welcome Reception</td>
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<td>10:00 a.m.</td>
<td>10:45 a.m.</td>
<td>Surgeon Pod</td>
<td>Robotics and Sensors: The Future of Operating Room Tech</td>
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<td>11:00 a.m.</td>
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<td>Tech Center</td>
<td>OEM R&amp;D Leaders Discuss Additive Manufacturing Implementation and Advancement</td>
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<td>Room 49</td>
<td>Vital QMS Process Validation Statistics</td>
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<td>Maximizing Use of Your Supplier Scorecard</td>
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<td>11:15 a.m.</td>
<td>12:00 p.m.</td>
<td>Surgeon Pod</td>
<td>Surgeon Metrics: Quality and Performance Measures</td>
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<td>12:15 p.m.</td>
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<td>Tech Center</td>
<td>Additive Manufacturing - Design Considerations Rapid Fire</td>
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<td>Room 49</td>
<td>Purchasing Controls: Embracing Your Process to Net Time, Money and Compliance</td>
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<td>Room 45</td>
<td>Leveraging Data to Develop, Execute and Exceed the Expectations of Your Regulatory Strategy</td>
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<td>Surgeon Pod</td>
<td>Clinical and Economic Impact of Value-Based Implants in Orthopaedic Trauma</td>
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<td>Tech Center</td>
<td>Additive Manufacturing - Powder Considerations Rapid Fire</td>
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<td>EU MDR Preparation: Seize the Market Opportunity and Avoid the Bottleneck</td>
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<td>Room 45</td>
<td>Smart Devices: Expanding the Value and Relevancy of your Designs with Sensors and Microelectronics</td>
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<td>2:45 p.m.</td>
<td>3:15 p.m.</td>
<td>Tech Center</td>
<td>Additive Manufacturing - Cleaning: Guidance for Removing Residual Powders</td>
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<td>3:30 p.m.</td>
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<td>Surgeon Pod</td>
<td>Orthobiologics and the Momentum of Regenerative Medicine</td>
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<td>China: Delivering the Next Wave of Orthopaedic Growth</td>
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<td>Room 45</td>
<td>Life Hacks for Professionals: How to Leverage Your Strengths to Succeed at Work and Home</td>
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<td>Tech Center</td>
<td>Additive Manufacturing - Mechanical Test Methods</td>
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<td>4:00 p.m.</td>
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<td>10:00 a.m.</td>
<td>10:45 a.m.</td>
<td>Surgeon Pod</td>
<td>Coatings: The Future of Bone Integration and Infection Perfection</td>
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<td>11:00 a.m.</td>
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<td>Tech Center</td>
<td>Additive Manufacturing - Developing a Roadmap for Regulatory Guidance and Standards</td>
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<td>Panel: Increasing Quality by Engaging Diverse Teams: OEM and Supplier Perspectives</td>
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<td>Design Controls: Building Objective Evidence and Process Architecture to Meet FDA and ISO Compliance</td>
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<td>11:15 a.m.</td>
<td>12:00 p.m.</td>
<td>Surgeon Pod</td>
<td>Considerations for Your Minimally Invasive Device</td>
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<td>Additive Manufacturing - Supplier Panel</td>
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<td>Room 45</td>
<td>Critical Cleaning and Sterile Packaging: Importance and Implications for Manufacturers</td>
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<td>Exhibit Hall</td>
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<td>Room 49</td>
<td>CLOSING SESSION</td>
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<td>Networking Reception (immediately following Closing Session)</td>
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STRATEGY | ROOM 45

ANALYZE AND OPTIMIZE YOUR SUPPLY CHAIN OPERATIONS FOR HIGHER PERFORMANCE

1:00 p.m. – 4:30 p.m.

Mark L. Spearman, Ph.D., President and Founder, Factory Physics
Ed Pound, Chief Operating Officer, Factory Physics

The operations science pioneered through Factory Physics® provides ground-breaking, practical concepts for analyzing and optimizing supply chain operations. Join two of the world’s leading authorities, Dr. Mark Spearman and Ed Pound, to learn basic approaches for operations science to enhance your world, with all its variability in product mix, demand, people and processes. You will get applications of the science that you can apply immediately upon your return to your office. The session will include interactive exercises with the audience to help reinforce the concepts and translate them to your business.

BEST PRACTICES | ROOM 49

UNIQUE DEVICE IDENTIFICATION: MANUFACTURER, HOSPITAL AND GLOBAL IMPLICATIONS

1:00 p.m. – 4:30 p.m.

Karen Conway, Executive Director of Industry Relations and Value, GHX
Jay Crowley, Vice President & Practice Lead of Unique Device Identification Services and Solutions, USDM Life Sciences

Unique device identification (UDI) is gaining global adoption. Now is the time for companies to take a step back and ask: Is my UDI framework scalable? UDI experts Karen Conway and Jay Crowley will answer your pressing questions on the U.S. regulation and provide perspective on ways that device manufacturers can implement a working system—including data management—that can scale with product development and UDI compliance needs. Attendees will leave with an understanding of new global regulations and practical, implementable advice for compliance.

Attendee Takeaways:
1. Understand the difference between U.S. regulation and new regulations being adopted in Europe, Asia and the Middle East
2. Learn how orthopaedic companies are handling direct part marking and convenience kit compliance
3. Know how hospital customers plan to capture UDI, and their future expectations from industry
4. Opportunities, best practices and next steps for UDI, including data management

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7:30 a.m. – 9:00 a.m.
Breakfast served at 7:30 a.m.
Keynote at 8:00 a.m.

The U.S. hospital landscape continues to be shaped by consolidation that is propelled by declining reimbursement, competition and public and private payor cost and control measures. These trends are expected to endure into the foreseeable future, prolonging the tough economic considerations that your hospital customers face along with the resulting impact on you, your company and your bottom line. To survive and prosper in this changed industry, knowledge truly is power. Choose to make intelligent, informed decisions by prioritizing your understanding of the key drivers fueling your customers’ purchasing decisions. If you seek certainty in uncertain times, this keynote is a must-attend.

ATTENDEE TAKEAWAYS:
1. Key drivers fueling hospital purchasing decisions
2. Tips for optimally positioning your company’s products to hospitals
3. Broadened perspective from a hospital CEO, value analyst, consultant and surgeon

MODERATOR
JOHN B. PRACYK, M.D., Ph.D. - Global Franchise Medical Device Leader, DePuy Synthes Spine
As an experienced neurological surgeon and national thought leader in the design, development and management of collaborative care delivery, Dr. Pracyk is a passionate proponent of value-based care and outcomes-focused clinical practices. At DePuy Synthes, Dr. Pracyk provides deep clinical insights to accelerate meaningful innovation and drive value and safety for spine patients worldwide. He serves as a strategic medical partner with colleagues across Research and Development, Franchise Marketing, Clinical, Regulatory Affairs, Medical Safety and Business Development at Johnson & Johnson Medical Devices.

PANELISTS
JONAS FUNK is a Managing Director and Partner in L.E.K. Consulting’s Chicago office. He has more than 17 years of experience at L.E.K., and has directed hundreds of consulting engagements primarily focused on growth strategy and M&A support in the medtech and life sciences industries. Mr. Funk co-founded the L.E.K. Tokyo office and has assisted dozens of clients in developing their Asia strategies. He holds a Bachelor of Arts in Economics from Carleton College, and his work in economics has been published in leading academic journals and national newspapers.

GLORIA GRAHAM, DNP, RN, CVAHP is a Past President of the Association of Healthcare Value Analysis Professionals (AHVAP). She has nearly three decades of experience, including positions in neuroscience, emergency medicine, forensic medicine and supply chain. Dr. Graham has expertise in product and device review, project management, shared governance, patient safety and value analysis. She is the Clinical Materials Specialist within the division of Contracts & Value Analysis for Supply Chain Management at Cincinnati Children’s Hospital Medical Center, where she coordinates clinical value analysis processes and other supply chain activities related to patient care, quality and safety.

FRED SLUNECKA has served since 2010 as the Chief Operating Officer of Avera Health, an integrated delivery network based in Sioux Falls, South Dakota. Mr. Slunecka is responsible for the overall patient care operations in this $2 billion enterprise that provides a full continuum of health care services in an 85-county service area. Avera operates more than 300 sites of service in over 100 communities located in South Dakota, Minnesota, Iowa, Nebraska and North Dakota. Prior to 2010, Mr. Slunecka served as CEO of Avera McKennan Hospital and University Health Center for over 21 years. Avera McKennan is Avera’s flagship 500-bed academic medical center.

ADOLPH J. YATES Jr., M.D. is Chief of Orthopaedic Surgery at UPMC-Shadyside Hospital. A hip and knee reconstruction surgeon, Dr. Yates also serves as Associate Professor and Vice Chairman for Quality Management in the Department of Orthopaedic Surgery at University of Pittsburgh School of Medicine. Dr. Yates’ research interests include approaches to cartilage restoration and their associated animal models; reduction of complications and readmissions after total joint arthroplasty; performance measures, adequacy of risk adjustment and access to care questions in total joint arthroplasty, and evidence-based medicine and development of clinical guidelines and appropriate use criteria.
THURSDAY KEYNOTE:
Surgeon Executive: Volume and Value

7:30 a.m. – 9:00 a.m.
Breakfast served at 7:30 a.m.
Keynote at 8:00 a.m.

ATTENDEE TAKEAWAYS:
1. Why volume and value are important metrics for your business
2. Broadened, longer term perspective on how care is priced

The phrase “Volume to Value” has become so overused that it’s devoid of meaning. What hospitals—and any smart business—mean when describing “Volume to Value” are changes that need to be made to the mix of product and service offerings in order to answer customer demands and increase profitability. After all, if care is properly priced and perceived as providing value to patients, there should be a rise in demand and volume. Dr. Mark I. Froimson, a surgeon executive and thought leader on value-based healthcare, will provide guidance on what’s driving hospital decisions for products and services and the impact on device company price and value.

MARK I. FROIMSON, M.D. is President of the American Association of Hip and Knee Surgeons (AAHKS) and a thought leader in value-based healthcare. Previously, he served as Executive Vice President and Chief Clinical Officer for Trinity Health and President and CEO of Euclid Hospital, a Cleveland Clinic Hospital. He was staff surgeon in the Department of Orthopaedic Surgery at the Cleveland Clinic for over 16 years, during which time he held leadership positions including President of the Professional Staff, Vice Chair of the Orthopaedic and Rheumatologic Institute and member of the Board of Governors and Board of Trustees. After receiving a degree in Philosophy from Princeton University, and his medical degree from Tulane University School of Medicine, Dr. Froimson completed his general surgical and orthopaedic training at the University of California, Los Angeles and Columbia-Presbyterian Medical Center. He completed his Fellowship in Adult Reconstructive Surgery at the University Hospitals of Cleveland. Dr. Froimson is board certified in orthopaedic surgery. Once in practice, he received his Master’s in Business Administration from the Weatherhead School of Business at Case Western Reserve University.

Why You Should Stop Saying “Volume to Value” in Healthcare
Mark I. Froimson, M.D., excerpted from his LinkedIn article

“Volume to Value” is just the wrong description of what we want to achieve. When we are speaking of necessary changes to our business model, what we are actually referring to is changing our mix of product and service offerings.

Just like any other business, there are offerings that have run their course and no longer provide the value that they once were perceived to provide. When that is the case, we should replace them with something better, something that the end user (the patient) prefers and is willing to pay for. (One example in total joint replacement is the use of skilled nursing care after hospital discharge; that is largely replaced by home care or self-directed exercise.) Apple doesn’t sell too many iPods anymore and Netflix doesn’t send videos by mail. But if you ask either whether their pursuit of their newer high-value offerings (iPhones and streaming video) meant a move away from volume, you would surely get some puzzled looks.

There is a rich history of progress in medicine based on the continuous quest to do better and deliver for our patients, and our current era is seeing tremendous gains in what is possible. Providing value to patients has always been, and will always be, the true heart of medicine.
VITAL QMS PROCESS VALIDATION STATISTICS
Heath Rushing, Co-Founder, Adsurgo, LLC
- Guidance on the need for statistical methods in process validation
- The application of hypothesis testing, data intervals, measurement systems analysis and sample size calculations during Installation Qualification (IQ)
- The application of risk management tools, design of experiments and process control/capability during Operational Qualification (OQ)
- The application of risk management tools and process control/capability during Performance Qualification (PQ)

MAXIMIZING USE OF YOUR SUPPLIER SCORECARD
Eduard Toerek, President, QUARA Innovations
Reinhold Toerek, Vice President, QUARA Innovations
- Learn how to implement a supplier scorecard
- Establish scorecard elements and targets
- Understand how to act on your scorecard once completed

PURCHASING CONTROLS: EMBRACING YOUR PROCESS TO NET TIME, MONEY AND COMPLIANCE
John Gagliardi, President, MidWest Process Innovation, LLC
- Learn the advantages of having a simple yet effective supplier agreement in place
- Understand FDA’s expectations for your evaluation and monitoring of suppliers, using risk management
- Fully grasp the crucial importance of authorizing and documenting changes to established purchasing relationships
- Know how to generate and optimally apply the objective evidence required for compliance to 21 CFR, Part 820.50

LEVERAGING DATA TO DEVELOP, EXECUTE AND EXCEED THE EXPECTATIONS OF YOUR REGULATORY STRATEGY
Robert A. Poggie, Ph.D., President, BioVera, Inc.
- Learn how to identify and use published scientific, clinical, biomechanical and device-performance data to support your FDA 510(k) pre-submissions and 510(k)s

EU MDR PREPARATION: SEIZE THE MARKET OPPORTUNITY AND AVOID THE BOTTLENECK
Michael Wolf, Director of Solutions Delivery, Maetrics
- Understand key steps companies can take to effectively implement MDR
- Learn how to effectively work with your Notified Body
- Know how to achieve business improvements in the process

SMART DEVICES: EXPANDING THE VALUE AND RELEVANCY OF YOUR DESIGNS WITH SENSORS AND MICROELECTRONICS
Deborah Munro, D. Eng., President, Munro Medical
- Understand how MEMS work and potential applications
- Understand how to build a MEMS device
- Availability of technology in public laboratories nationwide
- Intellectual property guidance and considerations

CHINA: DELIVERING THE NEXT WAVE OF ORTHOPAEDIC GROWTH
Stephen Sunderland, Managing Director, L.E.K. Consulting
- Overview of China market
- Understanding of the regulatory landscape
- Understanding of commercial and go-to-market dynamics in China’s orthopaedic marketplace

LIFE HACKS FOR PROFESSIONALS: HOW TO LEVERAGE YOUR STRENGTHS TO SUCCEED AT WORK AND HOME
G. Bryan Cornwall, Ph.D., P.Eng., Founder and Principal, Cornwall Bioengineering & Communications, Inc.
- How to understand and leverage your strengths
- The importance of written goals and how to achieve them
- Inspirational and practical tools to help you organize and execute more effectively
PANEL: INCREASING QUALITY BY ENGAGING DIVERSE TEAMS: OEM AND SUPPLIER PERSPECTIVES

Moderator: David Finch, Founder and Principal, Insight Collaboration Partners
Panelists to date include leadership from Orchid Orthopedic Solutions, Stryker and Tecomet. Check OMTECexpo.com for speaker updates.

- Best practices to proactively identify risks for failure
- Recommendations for engaging engineers and other R&D personnel in the supplier approval process to maximize overall and long term benefit
- Guidance to overcome challenges and understand cost/benefit created by design transfer requirements (820.30 Design Controls)
- Perspectives on ways that MedAccred is expected to impact OEMs and suppliers

DESIGN CONTROLS: BUILDING OBJECTIVE EVIDENCE AND PROCESS ARCHITECTURE TO MEET FDA AND ISO COMPLIANCE

John Gagliardi, President, MidWest Process Innovation, LLC

- Generating the proper objective evidence from the beginning of design controls
- Talking through your compliance using examples and process architecture
- Development of a Design Matrix
- Constructing a Design History File throughout the design controls process

Including keynotes and the closing surgeon panel, education runs the following times:

- Tuesday, 1:00 p.m. - 4:30 p.m.
- Wednesday, 8:00 a.m. - 4:00 p.m.
- Thursday, 8:00 a.m. - 3:00 p.m.

CRITICAL CLEANING AND STERILE PACKAGING: IMPORTANCE AND IMPLICATIONS FOR MANUFACTURERS

James Dwyer, Vice President of Technical Services, Millstone Medical Outsourcing

- Ways to evaluate the most effective, efficient path to get product to market
- An understanding of a variety of material and design options, and what is most suitable for different types of products
- Challenges associated with critical cleaning and ways to overcome them
- Manufacturing challenges of sterile packaging material and compositions
THANK YOU
to these exhibitors for sponsoring critical content
and networking opportunities for OMTEC 2018

PREMIER

413. Onyx Medical -
An Elos Medtech Company
Memphis, TN
901-323-6699
www.onyxmedical.net

GOLD

631. Millstone Medical
Outsourcing
Fall River, MA
508-679-8384
www.millstonemedical.com

218. NN Inc
Johnson City, TN
423-434-8300
www.nninc.com

SILVER

128. Autocam Medical
Kentwood, MI
616-541-8080
www.autocam-medical.com

143. MedTorque
Elmhurst, IL
844-633-8677
www.medtorque.com

127. Marox
Holyoke, MA
413-536-1300
www.marox.com

718. Precision Medical Technologies
Warsaw, IN
574-267-6385
www.premedtec.com

725. Mendell
Lakeville, MN
952-469-5500
www.mendell.com

431. Surface Dynamics/EuroCoating
Cincinnati, OH
Pergine Valsugana, Italy
513-612-4410 | 39-0461-518901
www.sdbiocoatings.com
www.eurocoating.it

BRONZE

414. Paragon Medical
Pierceton, IN
574-594-2140
www.paragonmedical.com
Surgeons Unite for Closing Panel
(Closing Reception immediately following, in the same room, 3:00 p.m. - 4:00 p.m.)

1:30 p.m. – 3:00 p.m.
Room 49

Where is the greatest room for innovation in orthopaedics? OMTEC’s Closing Panel brings together surgeon executives and entrepreneurs with diverse market backgrounds—joint reconstruction, spine and trauma—to provide perspective on how orthopaedic manufacturers can develop new products and services to help hospitals and surgery centers respond to the pressures they face.

By answering questions about value vs. volume, declining reimbursement, opportunities outside of direct patient care and areas for innovation, surgeons will provide device manufacturers—and contract manufacturers—with perspective on ways to prioritize product development, both iterative and transformational.

MODERATOR

JOHN B. PRACYK, M.D., PH.D. - Global Franchise Medical Director Leader, DePuy Synthes Spine, Company of Johnson & Johnson

PANELISTS

PETER ALTHAUSEN, M.D. - Chairman and Treasurer, Orthopaedic Implant Company; Trauma Surgeon, Reno Orthopaedic Clinic

MARK I. FROIMSON, M.D. - President, American Association of Hip and Knee Surgeons

PATRICK SWEENEY, M.D. - Spine Surgeon; Founder, Center for Minimally Invasive Surgery, Flow-Fx and ConnectSx

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Additive Manufacturing’s application in orthopaedics is a business-critical subject. Orthopaedic device company decision makers and their suppliers voice frustration and concern over the lack of guidance, support and access to knowledgeable workers to help them boost or begin their additive initiatives. Precious resources are dedicated to harnessing the potential of additive, and while many are making progress, others lack the knowledge and support to make measurable headway.

The Tech Center will host one-and-a-half days of education provided by more than 20 additive manufacturing experts.

OEM R&D LEADERS DISCUSS ADDITIVE MANUFACTURING IMPLEMENTATION AND ADVANCEMENT
10:00 a.m. – 11:00 a.m., Wednesday, June 13

Moderator:
Maximilian Munsch, Dr.-Ing., Co-Founder and Managing Partner, Ampower

Panelists:
Michele Pressacco, Dr.-Ing., Research & Development Director, Lima Corporate
Jennifer Moore, Senior Project Engineer, K2M
Jessee Hunt, President and CEO, 4WEB Medical

Attendee Takeaways:
- When to use and not use additive manufacturing—technology, cost and outsourcing perspectives
- How to maintain manufacturing quality
- Supply chain expectations
- Examining the future of additive

ADDITIVE MANUFACTURING - DESIGN CONSIDERATIONS RAPID FIRE
11:15 a.m. – 12:15 p.m., Wednesday, June 13

Speakers and Topics:
Easing the Secondary Production Process During Design
Maria Pettersson, Ph.D., Orthopaedic Industry Specialist, Arcam Group

Designing Porous Structures
Alejandro A. Espinoza Orías, Ph.D., Director, Orthopaedic Surgery 3D Printing Laboratory, Rush Medical College

Incorporating Design into the Development Process
Speaker information forthcoming.

ADDITIVE MANUFACTURING - POWDER CONSIDERATIONS RAPID FIRE
1:30 p.m. – 2:30 p.m., Wednesday, June 13

Speakers and Topics:
Why Your Powder Quality is Important
Frederic Marion, Ph.D., Customer Experience & Material Expertise Director, AP&C

How to Select a Metal Powder for Devices
Ray DeFrain, Regional Metallurgist, Carpenter Technology

Case Study: Properties and Applications of PEKK in Orthopaedics
Scott DeFelice, Chief Executive Officer, Oxford Performance Materials

ADDITIVE MANUFACTURING - CLEANING: GUIDANCE FOR REMOVING RESIDUAL POWDERS
2:45 p.m. – 3:15 p.m., Wednesday, June 13

Pierfrancesco Robotti, Scientific Marketing Manager, Eurocoating

Attendee Takeaways:
- Recommendations on post-treatment processes for porous surfaces
- Recommendations on establishing and maintaining a residue removal process
ADDITIVE MANUFACTURING – MECHANICAL TEST METHODS
3:30 p.m. – 4:00 p.m., Wednesday, June 13

Andrew Smith, PE, Manager, Joint Arthroplasty, Element Materials Technology

Attendee Takeaways:
- How testing differs between AM and traditional devices
- Strategies for developing additive manufacturing testing protocols

ADDITIVE MANUFACTURING – DEVELOPING A ROADMAP FOR REGULATORY GUIDANCE AND STANDARDS
10:00 a.m. – 11:00 a.m., Thursday, June 14

Moderator: Lauralyn McDaniel, Industry Manager, Medical, SME
Panelists:
- Dan Fritzinger, Manager, Global Instrument Innovation, DePuy Synthes
- Mohsen Seifi, Ph.D., Director, Additive Manufacturing Programs, ASTM International
- David Hwang, Spinal Device Reviewer, Office of Device Evaluation, FDA

Attendee Takeaways:
- Current medical device additive manufacturing guidance and standards roadmap
- Gaps identified in current guidance and standards
- Guidance and standards on the horizon

ADDITIVE MANUFACTURING – SUPPLIER PANEL
11:15 a.m. – 12:15 p.m., Thursday, June 14

Moderator: Maximilian Munsch, Dr.-Ing., Co-Founder and Managing Partner, Ampower
Panelists:
- Laura Gilmour, Medical Account Manager, EOS North America
- Gautam Gupta, Ph.D., Vice President, Business Development, Healthcare, 3D Systems
- Dale Kellington, General Manager, Precision ADM
- Pierfrancesco Robotti, Scientific Marketing Manager, Eurocoating

Attendee Takeaways:
- Greatest challenges that OEMs and suppliers face when implementing and ensuring ROI with additive manufacturing
- Technology misconceptions that the orthopaedic industry must overcome
- Ways to maintain manufacturing quality
- Supply chain expectations

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- 1.5 days of education
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**Wednesday, June 13 – Thursday, June 14**

The surgeon-staffed Surgeon Pod returns with R&D themes related to technology, care delivery and device design. The session format calls for 15-minute presentations from surgeons, with the majority of the time allocated for Q&A. These interactive conversations will generate device development ideas and make you smarter about the challenges that your colleagues and surgeon customers face.

The Surgeon Pod experience is ideal for new engineers seeking opportunities to speak one-on-one with surgeons.

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**Wednesday Sessions – Beyond the Device**

**ROBOTICS AND SENSORS: THE FUTURE OF OPERATING ROOM TECH**

10:00 a.m. – 10:45 a.m., Wednesday, June 13

*Martin Roche, M.D., Founder & Chief Medical Officer, OrthoSensor; Surgeon, Holy Cross Orthopaedic Institute*

**Attendee Takeaways:**
- Importance of robotics and sensors in orthopaedic surgery
- Future uses of robotics and sensors

**SURGEON METRICS: QUALITY & PERFORMANCE MEASURES**

11:15 a.m. – 12:00 p.m., Wednesday, June 13

*Adolph J. Yates Jr., M.D., Chief of Orthopaedic Surgery at UPMC-Shadyside Hospital*

**Attendee Takeaways:**
- Understanding of how surgeon performance is rated
- Overview of changes to evidence-based healthcare

**CLINICAL AND ECONOMIC IMPACT OF VALUE-BASED IMPLANTS IN ORTHOPAEDIC TRAUMA**

1:30 p.m. – 2:15 p.m., Wednesday, June 13

*Peter Althausen, M.D., Chairman and Treasurer, Orthopaedic Implant Company; Trauma Surgeon, Reno Orthopaedic Clinic*

**Attendee Takeaways:**
- Market forces driving value-based care
- Potential savings generated by cost-effective care

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**Thursday Sessions – Device Design**

**ORTHOBIOLOGICS AND THE MOMENTUM OF REGENERATIVE MEDICINE**

2:45 p.m. – 3:30 p.m., Wednesday, June 13

*Matthew L. Jimenez, M.D., Trauma Surgeon, Illinois Bone & Joint Institute*

**Attendee Takeaways:**
- Current and potential impact of biologics in orthopaedics
- Opportunities and challenges for surgeons and device companies in biologic development

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**ENGAGE SURGEONS; GENERATE DEVICE DEVELOPMENT IDEAS**

**SURGEON POD**

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**Thursday Sessions – Device Design**

**COATINGS: THE FUTURE OF BONE INTEGRATION AND INFECTION PREVENTION**

10:00 a.m. – 10:45 a.m., Thursday, June 14

*Michael Gentile, DPM, Westside Foot & Ankle Specialist*

**Attendee Takeaways:**
- Future coating technologies
- Ways to engage the surgeon on coating’s role in a device

**CONSIDERATIONS FOR YOUR MINIMALLY INVASIVE DEVICE**

11:15 a.m. – 12:00 p.m., Thursday, June 14

*Patrick Sweeney, M.D., Spine Surgeon and Founder, Center for Minimally Invasive Surgery; Founder, Flow-Fx and ConnectSx*

**Attendee Takeaways:**
- Device needs for minimally invasive surgery
- Future of minimally invasive surgery
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<td>Oakland, NJ</td>
<td>201-537-1266</td>
<td><a href="http://www.ortholynx.com">www.ortholynx.com</a></td>
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<tr>
<td>708</td>
<td>OrthoMed</td>
<td>Tiggard, OR</td>
<td>503-234-9691</td>
<td><a href="http://www.orthomedinc.com">www.orthomedinc.com</a></td>
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<tr>
<td>414</td>
<td>Paragon Medical</td>
<td>Pergecton, IN</td>
<td>574-594-2140</td>
<td><a href="http://www.paragonmedical.com">www.paragonmedical.com</a></td>
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<tr>
<td>751</td>
<td>PCC Medical Group</td>
<td>Portland, OR</td>
<td>503-794-2099</td>
<td><a href="http://www.pccstructural.com">www.pccstructural.com</a></td>
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<td>632</td>
<td>RedLux Ltd - Metrology</td>
<td>Romsey, United Kingdom</td>
<td>44-23-8026-3095</td>
<td><a href="http://www.redlux.net">www.redlux.net</a></td>
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<td>266</td>
<td>Perryman Company Forge &amp; Fabrication</td>
<td>Houston, PA</td>
<td>724-745-7272</td>
<td><a href="http://www.perrymanco.com">www.perrymanco.com</a></td>
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<td>202</td>
<td>Red Star Contract Mfg</td>
<td>Larwill, IN</td>
<td>606-229-0171</td>
<td><a href="http://www.redstarcontractmfg.com">www.redstarcontractmfg.com</a></td>
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<tr>
<td>353</td>
<td>RevZero</td>
<td>Chanhassen, MN</td>
<td>952-338-9966</td>
<td><a href="http://www.revzeroinc.com">www.revzeroinc.com</a></td>
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<td>334</td>
<td>Precipart</td>
<td>Farmingdale, NY</td>
<td>631-694-5900</td>
<td><a href="http://www.precipart.com">www.precipart.com</a></td>
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<td>613</td>
<td>rms Medical</td>
<td>Anoka, MN</td>
<td>763-427-6141</td>
<td><a href="http://www.rmsmedical.com">www.rmsmedical.com</a></td>
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<td>638</td>
<td>Precision ADM/ Orthopaedic Innovation Centre</td>
<td>Winnipeg, Canada</td>
<td>855-500-7236</td>
<td><a href="http://www.precisionadm.com">www.precisionadm.com</a></td>
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<tr>
<td>506</td>
<td>Rollomatic</td>
<td>Mundelein, IL</td>
<td>847-281-8550</td>
<td><a href="http://www.rollomaticusa.com">www.rollomaticusa.com</a></td>
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<tr>
<td>421</td>
<td>Orthoplastics</td>
<td>Bacup, Lancashire, UK</td>
<td>49-8031-900-587-0</td>
<td><a href="http://www.orthoplastics.com">www.orthoplastics.com</a></td>
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<tr>
<td>718</td>
<td>Precision Medical Technologies</td>
<td>Warsaw, IN</td>
<td>574-267-6385</td>
<td><a href="http://www.precisionmedi.com">www.precisionmedi.com</a></td>
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<td>315</td>
<td>Rosler Metal Finishing</td>
<td>Battle Creek, MI</td>
<td>269-441-5000</td>
<td><a href="http://www.rosler.us">www.rosler.us</a></td>
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<tr>
<td>116</td>
<td>Pacific Instruments</td>
<td>Honolulu, HI</td>
<td>808-941-8880</td>
<td><a href="http://www.pacificinstruments.biz">www.pacificinstruments.biz</a></td>
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<tr>
<td>434</td>
<td>puracon</td>
<td>Rosenheim, Germany</td>
<td>49-8031-900-587-0</td>
<td><a href="http://www.puracon.com">www.puracon.com</a></td>
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### Exhbitors Listings

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<td>Schutte</td>
<td>Jackson, MI</td>
<td>517-762-3600</td>
<td>schutteusa.com</td>
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<td>826.</td>
<td>Shandong Xinhua Health Industry</td>
<td>Shandong, China</td>
<td>86-0533-3595361</td>
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<td>720.</td>
<td>Strategix Medical Solutions</td>
<td>Tanner, AL</td>
<td>256-340-3890</td>
<td>strategixmedical.com</td>
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<td>309.</td>
<td>Seabrook Medical</td>
<td>Seabrook, NH</td>
<td>603-474-1919</td>
<td>seabrookmedical.com</td>
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<td>807.</td>
<td>SLM Solutions</td>
<td>Wixom, MI</td>
<td>248-243-5400</td>
<td>slm-solutions.us</td>
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<tr>
<td>535.</td>
<td>Structure Medical</td>
<td>Naples, FL</td>
<td>239-262-5551</td>
<td>structuremedical.com</td>
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<td>439.</td>
<td>Selenium Medical</td>
<td>La Rochelle, France</td>
<td>33-5-4644-4082</td>
<td>selenium-medical.com</td>
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<td>731.</td>
<td>Solvay</td>
<td>Alpharetta, GA</td>
<td>800-621-4557</td>
<td>solvay.com</td>
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<td>431.</td>
<td>Surface Dynamics/EuroCoating</td>
<td>Cincinnati, OH</td>
<td>513-702-6656</td>
<td>sbdicoatings.com</td>
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<tr>
<td>338.</td>
<td>SQ Products</td>
<td>Steinhausen, Switzerland</td>
<td>41-4-748-5300</td>
<td>sqproducts.ch</td>
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<tr>
<td>333.</td>
<td>Syntec Scientific</td>
<td>Taipei, Taiwan</td>
<td>886-4-798-7099</td>
<td>syntec.com.tw</td>
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<td>151.</td>
<td>Shandong Weigao Orthopedic</td>
<td>Weihai, China</td>
<td>86-631-5788927</td>
<td>en.wegortho.com</td>
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CUSTOMER APPRECIATION/WELCOME RECEPTION
TUESDAY, JUNE 12
5:30 p.m. – 7:00 p.m.
Joe’s Live Rosemont
joesliverosemont.com
Connect with peers and partners over light fare and drinks at this kick-off event. The location of this event is within walking distance of the hotels.

KEYNOTES
WEDNESDAY, JUNE 13
THURSDAY, JUNE 14
7:30 a.m. – 9:00 a.m. | Room 51
Attendees and exhibitors alike are invited to the keynote addresses, where powerful insights are delivered over breakfast. Banquet style seating facilitates opportunities to meet new partners or customers and engage in dialogue surrounding pressing industry issues. Keynote addresses continue to be a highlight of the OMTEC experience.

NETWORKING LUNCH
WEDNESDAY, JUNE 13
12:00 p.m. – 1:30 p.m.
Exhibit Hall Floor
This year’s networking lunch, sponsored by NN Inc., will encourage exhibit hall exploration while partaking in delicious fare. A reservation-only “Lunch with the Experts” opportunity facilitates solution-generating dialogue.

NETWORKING RECEPTION
WEDNESDAY, JUNE 13
4:00 p.m. – 5:30 p.m.
Exhibit Hall Floor
Everyone is invited to the Exhibit Hall for mingling and networking over light fare and drinks. A raffle with giveaways from sponsoring exhibitors adds a fun way for attendees to discover new partners.

SURGEON POD AND TECH CENTER
WEDNESDAY AND THURSDAY
Daily
Exhibit Hall Floor
Introduced in 2014, these energy hubs on opposite ends of the exhibit floor facilitate interaction between the knowledge-seeker and the expert.

CLOSING RECEPTION
THURSDAY, JUNE 14
3:00 p.m. – 4:00 p.m.
Room 49
Everyone is invited to solidify their connections and make some new ones before OMTEC concludes. A wine and cheese reception immediately follows the closing session.
ACKNOWLEDGEMENTS AND BOARD MEMBERS

Mission: To educate, connect and empower the people who build orthopaedic products.

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830 826 824 820 818

821 721 719

713

726 724

720 718

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708 706 609 607

614 612 606

515 513 509 507

413 407

414 412 407

315 309 307

314 312 308 306

213 207

212 208 206

115 113 109 107

126 224 218

121 119

110 108

128 122 118 116 114

110

128

Reserved

Reserved

Seating Area

Refreshments

CAFE

Stairway to Educational Sessions

MAIN ENTRANCE
NEED A PLACE TO MEET?
PRIVATE MEETING ROOMS AVAILABLE

Available at OMTEC 2018 is the opportunity to secure a Private Meeting room during the event. Space is limited and offered on a first come, first served basis. Reservation Requests should be received no later than May 31, 2018. Once received, we will contact you directly. Reservations Contact: Emily McCandless 440.543.2101

<table>
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<th>TIME</th>
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<td>Entire Event</td>
<td>$2,150</td>
<td>10</td>
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<td>Full Day</td>
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<td>$990</td>
<td>10</td>
<td>12:30 p.m. - 5:00 p.m.</td>
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