


TUESDAY, APRIL 28, 2020											
TIME	CONTRACT/ CHEMSPEC USA STAGE	INNOVATION STAGE	INNOPHEX STAGE Curated by: 	INTERPHEX LIVE	MG2/MG AMERICA PACKAGING & PROCESSING SUMMIT	ATS AUTOMATION FORUM	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5 TECH WORKSHOPS
	Booth 1058	Booth 1281	Booth 4028	Lobby/CP2	Booth 2221	Booth 2922	Booth 1076	Booth 1577	Booth 1877	Booth 2276	Booth 2477
<b>9:45am - 10:00am   Exhibit Hall Grand Opening &amp; Exhibitor Awards</b>											
<b>10:00am - 5:00pm   Show Floor &amp; INTERPHEX Poster Hall Open</b>											
10:30am - 11:15am		<b>Pharmaceutical Technology Keynote Series</b>  Commercialization Challenges for Cell and Gene Therapies  10:30am - 12:00pm  Oscar Perez-Leal, MD	Introduction: Contaminants and their Mediation  Impact of Bioprocess 4.0: Real-time Measurement and Parameter Control PAT and QBD	Advancing Microbiology to Meet the Needs of Personalized Medicine  <i>Jeanne Moldenhauer, VP, Excellent Pharma Consulting; Dr. Tony Cundell, Microbiological Consulting, LLC</i>		Is Your Operating Culture Ready for Smart Manufacturing?	Product and Process Development: Role of Modeling and Simulation	Eliminating Paper Records and Automating Data Entry to Improve Data Integrity	Optimizing Disinfection in the Pharmaceutical Industry with UV-C	Why Establish a Project Management Office at your Company?	Aramark Cleanroom Services  10:30am - 11:00am
11:30am - 12:15pm	A Novel Vector System for Rapid Development of Knock-in Cell Lines With CRISPR  <i>Oscar Perez-Leal, MD</i>		BioSpherix Medical	Medical Isotopes: The Industry Perspective  <i>Travis Besanger, Technical and Business Director, Kinectrics; Dave Patterson, CEO, Grantek; Darryl Spector, President, Promotion Nuclear</i>	Beyond Serialization: The Added Value of Aggregation	Emerging Technologies in Assembly Automation	Supply Chain and Operations in the World of CAR-T	Cell & Gene Therapy: The Challenges in Transitioning from Clinical to Commercial Manufacturing/Operational Readiness	Containment Considerations for the Cryopreservation of Cell and Gene Therapies	Risk Mitigation for Higher Levels of Data Integrity	MilliporeSigma: Demystifying Continued Process Verification (CPV) and Process Data Management with Analytics Tools Purpose-build for Bioprocess Troubleshooting and Process Monitoring  11:15am - 11:45am
<b>Break for Lunch</b>											ICQ Consultants <b>Lunch and Learn</b> 12:00pm - 1:00pm
1:15pm - 2:00pm	PBOA	<b>Pharmaceutical Technology Keynote Series</b>  GMPs and Creating a Quality Culture  1:15pm - 3:00pm	Extractables and Leachables: The Single-use Technology Status	Integrating AR, VR and AI into Formulation	Containment Spotlight: Focus on Operator Safety and Ergonomics	Advancements in Artificial Intelligence and Real Applications in Pharmaceutical Manufacturing	<b>CRB Tech Tank:</b> Viral Vector Facility Design	The Digital Twin: Integrated Engineering the Key to Cost Effective Digitalization	Facility and Building Robotics: Capturing Reality and Delivering Solutions	Three Practical Examples of Pharma 4.0 Technologies in Manufacturing Operations	MilliporeSigma: The BioContinuum™ Seed Train Platform – Driving Value and Innovation Towards the Evolution of Upstream Processes  1:15pm - 1:45pm
2:15pm - 3:00pm			Inactivation and Removal of Virus Risk	Strategies Advancing Gene/Cell Therapy Platforms	Advanced Manufacturing Sciences: From Engineering Design to Process and Product Quality Prediction  2:15pm - 2:45pm	Automation in Aseptic Environment, Isolator, RABS	<b>CRB Tech Tank:</b> Isolators in Cell Therapy Processing: Why, How, and Pitfalls to Avoid	Realize Audit Readiness, Anytime and Anywhere, through Real-time Operations Intelligence	Enhancing Your Organizations Expertise in Quality and Supply Chain Security  <i>Moderated by Jim Fries</i>	Continuous Manufacturing Processes Design, Development, and Control	Colder Products Company  2:00pm - 2:30pm
3:15pm - 4:00pm	Avid Bioservices		Update on Integrity and Leak Testing of Filters and Single-use Assemblies	Continuous BioProcessing  <i>Douglas Hausner, PhD, Rutgers University; Eric Langer, BioPlan Associates, Inc.</i>	Modular Feeding and Blending Units as Key Elements of Continuous Manufacturing  3:00pm - 3:30pm	Is Your Operating Culture Ready for Smart Manufacturing?	<b>CRB Tech Tank:</b> Multi-modal Facilities: Delivering Flexible, Future-proof ATMP Facilities	Enhanced Selectivity of Ion Exchange Resin for ADC Polishing	<b>RX360 Panel:</b> Enhance Your Organization's Expertise in Quality and Supply Chain Security	<b>PDA Roundtable:</b> The New Method and Economics of Gene/Cell Therapeutic Development and Commercialization: A Revolution in Progress	Syntegon Pharma Technology Inc.  Challenges and Solutions for Aseptic High-potent Fill-finish Lines  3:00pm - 3:30pm
4:15pm - 5:00pm	<b>Contract Services Networking Reception</b>  Sponsored by PBOA  4:00pm - 5:00pm	Standardizing Tech Transfer and Opportunities in Accelerating Drug Development Life Cycle  <b>Networking Reception</b> 4:00pm - 5:00pm	Where Are My Production Supplies? Using Advanced Business Tools in Your Supply Chain  <b>Networking Reception</b> 4:00pm - 5:00pm	Update on What's New with FDA Inspections  <i>Joe McGinnis, Johnson &amp; Johnson</i>	Emerging Technologies in Assembly Automation	Designing Bio-Pharmaceutical Facilities with Hazardous Materials: A Risk-Based Approach	Defined Environmental Metrics Critical to Improve Cellular and Clinical Metrics in Cell and Gene Therapy for Facility Optimization	Quality by Design (QbD) in the Era of Cell and Gene Therapy: Taking it to the Next Level	Leveraging Master Soil Selection: Cleaning Validation Design Phase Thru FAT of an Automated Parts Washer	EMD Serono  Continuous Development and Manufacturing – EMD's Way to QbCon  4:00pm - 4:30pm	

## WEDNESDAY, APRIL 29, 2020

TIME	CONTRACT/ CHEMSPEC USA STAGE	INNOVATION STAGE	INNOPHEX STAGE Curated by: PALL Biotech	INTERPHEX LIVE	MG2/MG AMERICA PACKAGING & PROCESSING SUMMIT	ATS AUTOMATION FORUM	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5 TECH WORKSHOPS	
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<b>10:00am - 5:00pm   Show Floor and INTERPHEX Poster Hall Open</b>												
10:15am - 11:00am	PBOA	<b>Implementation of New Technology in Real World Biopharmaceutical Manufacturing: Cost and Value, Risk and Promise</b> <i>Jeffrey C. Baker, Ph.D, U.S. FDA</i>	Opening: Chair Open Remarks  Considerations for Getting to Scale and Out of Flatware: Cost Modeling		A Systematic Method for Optimizing Process Development and Product Transfer between Batch and Continuous Manufacturing Processes	Advancements in Artificial Intelligence and Real Applications in Pharmaceutical Manufacturing	<b>Facility Focus:</b> Facility Design for cGMP Cell and Gene Therapy	<b>PDA Roundtable:</b> CDMOs: Overcoming Challenges to Innovation, Acceleration to Market, and High-profit	NIMBL-BioPhorum Buffer Stock Blending (BSB) System: How BioPhorum is Advancing the Buffer Manufacturing Processes	Pharma 4.0: How to Leverage your Investment in Serialization to Enable Supply Chain Digitization, Smart Data Mgmt and Blockchain Adoption to Break Down Barriers and Leverage Smart Data Flow	Italvacuum Srl 10:30am - 11:00am	
11:15am - 12:00pm		<b>Pharmaceutical Technology Keynote</b> Technology Advances in Process Operatoins: Panel Discussion on How to Use Real-time Monitoring and AI to Optimize Manufacturing Operations	Industrializing Gene Therapy Viral Vector Production	Pharma Intelligence: 2020 State of Investment <i>Annette Kreuger, Industrial Industry Info-IRR</i>	The Potential Envelope for Developing Difficult to Process New Drug Products on a Continuous Motion Encapsulator	Automation in Aseptic Environment, Isolator, RABS	Real-Time Bioprocess Monitoring and Control with Raman Spectroscopy	A Tactical Blueprint for Regulatory Inspection Readiness	Resin Selection and Film Structure Development for Advancements in Film Technology within Bioprocessing	Cleaning Monitoring Benchmark: Visual Inspection and Surface Cleanliness Monitoring	Cellon S.A. Are Sterile Bioprocess Containers a Source of Particulate Contamination? 11:30am - 12:00pm	
				<b>Networking Reception</b>	<b>Break for Lunch</b>						Element AI 12:15pm - 12:45pm	Coming Soon
1:15pm - 2:00pm		<b>Pharmaceutical Technology Keynote Series</b>  Genotoxic Impurities and Drug Quality: Lessons from the Nitrosamine Contamination Crisis	Optimizing Upstream Production of Viral Vectors	Biosimilars 2020 and Beyond <i>Rick Morris, Pall Biotech; Michiel E. Ultee, PhD, Ulteemit BioConsulting; Hillel Cohen, PhD, Sandoz</i>	Key Considerations for DPLs Hard Capsules: Understanding the Science	Is Your Operating Culture Ready for Smart Manufacturing?	<b>Facility Focus:</b> GMP Facilities: Technology for Integrated Design and Construction	Manufacturing Flexibility: A New Dimension for Pharmaceutical Spray Dryers in Drug Development, Clinical Supplies, and Small-scale Commercial Manufacturing	Driving Robust Container Closure System Optimization for Risk Mitigation through Big Data Analytics	Case Study: How to Approach and Implement 4.0	Nelson Labs: Toxicology Challenges with Sensitivity of Extractables and Leachables 1:00pm - 1:30pm	
2:15pm - 3:00pm	PBOA	1:15pm - 3:00pm	Getting the Most from Your Downstream Vector Purification and Case Study on AAV5 Capsid Enrichment	CMO/Sponsor Relationship <i>Ed Price, Segens CDMO North America, Bikash Chatterjee, Pharmatech Associates</i>	Case Study: ROEMMERS Laboratories: A Modern Approach to Flexibility in DPI and OSD Manufacturing	Emerging Technologies in Assembly Automation	From Discovery to Commercial Production in Less Time with New Manufacturing Technologies	Picking the Right Cell Therapy Culture System	Quality Systems Guidelines: Do they Always give a Clear Way to Assure Quality? Suggestions to Improve	A Possible Science-based Approach for Preventive Derouging and Passivation Program	Syntegon Pharma Technology Inc. 2:00pm - 2:30pm	
3:15pm - 4:00pm			Ready to Go: PODs and Your Process	Process Monitoring, Control and Improvement: Focus on Continued Process Verification <i>Ron Snee, Snee Associates, LLC</i>		Advancements in Artificial Intelligence and Real Applications in Pharmaceutical Manufacturing	Early Detection of Capping Risk in Pharmaceutical Compacts with Ultrasound	Do you really know what your organization knows? An Application for KM in the BioPharmaceutical Industry	Solid Form Screening and Selection: A Critical Part of Drug Development	Designing Today for the Future of Continuous Processing	SP Scientific/ PennTech Micro-Lines for Small Batch Applications 3:00pm - 3:30pm	
4:15pm - 5:00pm	<b>Contract Services Networking Reception</b>  Sponsored by PBOA 4:00pm - 5:00pm	CryoVault™: Single-Use, End-to-End, Freeze and Thaw Platform for Bulk Drug Substance: A Client Case Study	Roundtable: Wrap Up of Gene Therapy Day	Using Contact Lenses as a Drug Delivery System <i>Craig Walker, MedTec Consulting, LLC</i>		Automation in Aseptic Environment, Isolator, RABS	Beyond the Hype: Operational Simulations to Deliver NextGen Medicines	Making Connections: Integrating Quality Data With Manufacturing	Single-Use vs Stainless Steel Manufacturing Facilities or are Hybrid Facilities the Best of Both Worlds?	Accelerating Biosafety Testing with the MilliporeSigma BioReliance® Platform: Reducing Release from Weeks to Days	Apprentice FS Inc. 4:00pm - 4:30pm	

### THURSDAY, APRIL 30, 2020

TIME	CONTRACT/ CHEMSPEC USA STAGE	INNOVATION STAGE	INNOPHEX STAGE Curated by: PALL Biotech	INTERPHEX LIVE	MG2/MG AMERICA PACKAGING & PROCESSING SUMMIT	ATS AUTOMATION FORUM	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5 TECH WORKSHOPS
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<b>10:00am - 3:00pm   Show Floor and INTERPHEX Poster Hall Open</b>											
10:15am - 11:00am		Big Data Analytics of Freeze Drying Process and Equipment	A Case Study in Producing hMSCs	Supply Chain <i>Wayne Winegarden, PhD, Pacific Research Institute and PRI Center for Medical Economics and Innovation</i>		Is Your Operating Culture Ready for Smart Manufacturing?	Automated Aseptic Filling Option for Buffer, Media and Process Intermediates Increases Speed, Operational Flexibility, and Repeatability	Integrating PAT into PAS for Continuous Manufacturing in Pharmaceutical Industry	Optimization of Final Filtration Operations Using Single-Use Systems	Four Steps Toward Connected Biomanufacturing: Process Concepts from Start to Finish with Brilliant Potential	SUEZ, Sievers Instruments: Integration of Online Total Organic Carbon and Conductivity with a CIP Skid for Real-Time CV 10:30am - 11:00am
11:15am - 12:00pm			Using a Process Development Service to Accelerate Time to Market	How Leveraging Data will Transform the Pharma Industry <i>Bharat Rao, PhD, KPMG LLP</i>		Emerging Technologies in Assembly Automation		Manufacturing of Viral Vectors: Current Facility Design and Lessons Learned	Plug and Play Automation for Single Use Equipment		
<b>Break for Lunch</b>											
1:15pm - 2:00pm						Advancements in Artificial Intelligence and Real Applications in Pharmaceutical Manufacturing	<p>Please take your <b>Technical Conference Survey!</b></p> <hr/> <p>Available in the <b>INTERPHEX</b> Mobile App</p>				
2:15pm - 3:00pm						Automation in Aseptic Environment, Isolator, RABS					