

## PDA 71 Years of Connecting People, Science and Regulation®



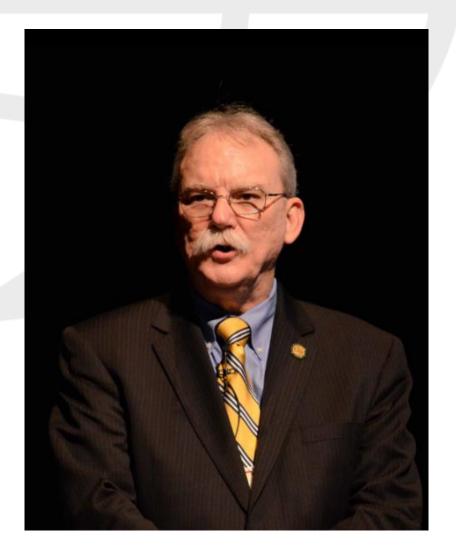
**Connecting People, Science & Regulation®** 

### I'm happy to be here.

# Bom Dia. Estou feliz por estar aqui.

#### **Richard M. Johnson**

- PDA President & CEO since 2009
- 38 years experience in US and International pharma and medical device operations



### **Parenteral Drug Association**



#### Since 1946

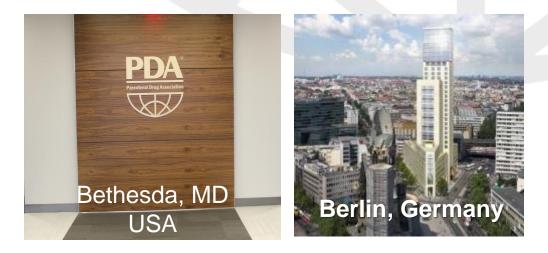


Leading global provider of science, technology and regulatory information and education for the pharmaceutical and biopharmaceutical community.

## **Parenteral Drug Association**



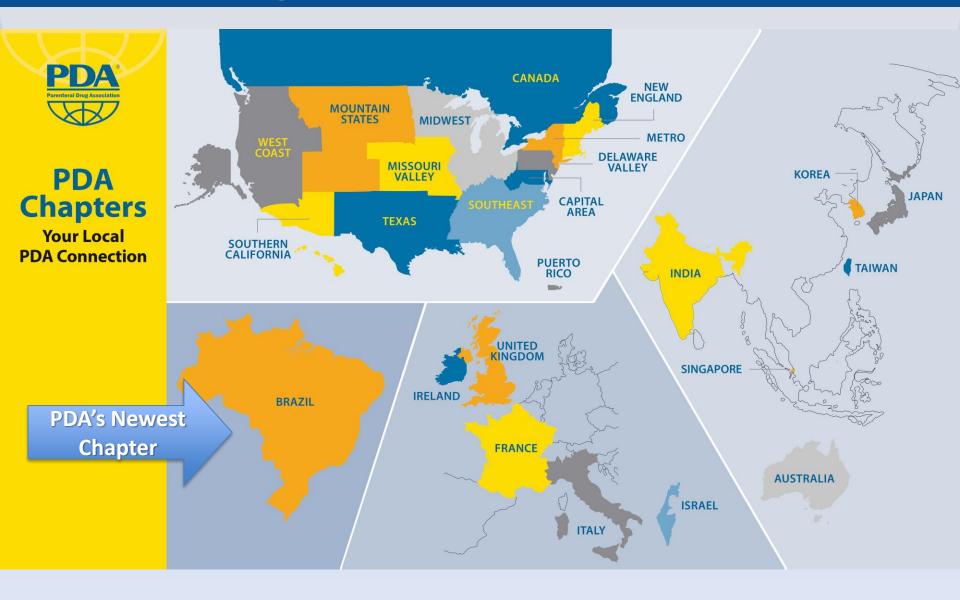
### Global Offices & International Membership



#### 25 Chapters Around the Globe Ca More than 10,000 Members

### **PDA Chapters around the World**





### From the PDA By Laws:

#### "Article IX: Chapters

Section 1. Establishment. The association shall have such chapters, domestic or foreign, as may be granted a charter by the Board of Directors upon petition of at least ten (10) Association members residing in a common geographic area. Appropriate common geographic areas shall be determined by the President with approval of the Board of Directors.

Section 2. Activities. Chapters may engage in program activities consistent with the purpose of the Association and deemed to serve the needs and interests of Chapter members

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### WHY WE HAVE CHAPTERS

### From the Chapter By Laws:

#### *"ARTICLE II*

#### Corporate Purpose

The Purpose of the Chapter is to provide a local forum for discussion, meetings and information exchange and to promote PDA membership, and to further PDA's mission as determined by PDA's Board of Directors from time to time. As such, the Chapter shall:

- 1. Promote and enhance knowledge within the sciences and technologies addressed by PDA for the benefit of members and potential members within the Chapter's geographic territory which shall be provided for in the Charter of the Chapter.
- 2. Develop programs and other activities that are designed to meet local and/or global needs consistent with the mission and objectives of PDA.
- 3. Encourage membership in PDA and promote attendance at functions sponsored by the Chapter and PDA.
- 4. Submit all scientific papers presented at Chapter meetings and intended for publication to PDA for consideration/inclusion in PDA proceedings and/or the PDA Journal of Pharmaceutical Science and Technology."



#### **PDA Vision**

To maximize product quality, availability, and value by connecting people, science, and regulation within the pharmaceutical and biopharmaceutical community so that PDA is:

- The preferred choice for professionals who seek specialized, innovative skills and knowledge enhancing their professional development
- The premier educational partner for professionals in academia, industry and government for the advancement of manufacturing, quality and regulatory science
- · An organization that aligns its practices and resources in support of its core values of science based, integrity, and inclusion

#### PDA Mission

To advance pharmaceutical / biopharmaceutical manufacturing science and regulation so members can better serve patients.

#### **PDA Values**



Science Based: Science is the foundation of our organization. We utilize a scientific approach to meet challenges and continuously improve. It is not subjective or emotional, but rather a logical, open, rational and transparent process.



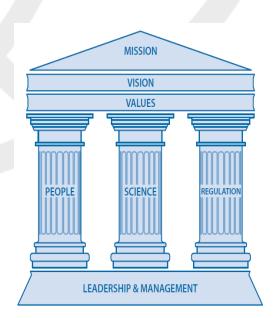
**Integrity:** We are relentless in applying the highest ethical standards to our products, services and actions. We will never compromise ethics. We will be known for living to the highest forms and standards of ethical behavior. We will honor our commitments.



**Inclusion:** We work together to create a culture of inclusion built on trust, respect and dignity for all. We contribute to the advancement of pharmaceutical / biopharmaceutical operations by building partnerships with professionals in academia, industry and regulatory bodies to better serve patients.

### PDA Strategic Activities

- **People:** Continue to enhance the value of PDA membership, grow and enhance the organization globally.
- Science: Be recognized by professionals in academia, industry and regulatory bodies as the premier global leader for the advancement of science, manufacturing, quality and innovation.
- **Regulation:** Regulatory activities are scientifically, riskbased and technically focused. Assist the regulators and industry by providing the knowledge and tools to drive ideological movement that goes beyond compliance towards continuous improvement, quality performance and true quality innovation.
- Leadership and Management: Foster an environment of sustainable growth, strong organizational leadership, a mindset of continuous improvement, and discipline in business process management; so that PDA can flourish and achieve its mission and vision while living the values.





### Strategic Initiatives

#### Aseptic Processing /Revision of EMA-PIC/S Annex 1

 PDA continues a long tradition of leadership in Sterile manufacturing focusing on driving aseptic processing to continued improvement and better alignment of regulatory guidance

#### Manufacturing Science and Operations Program

- Highlight the ongoing focus PDA has on pharmaceutical and biopharmaceutical manufacturing.
- Strengthen and build practical solutions by filling known gaps in current manufacturing science as well as gaps that will become apparent based on ongoing developments and analyses.
- Identify and encourage use of new manufacturing technology and methods.
- Provide Portfolio Analysis and Management of these activities across PDA.

#### • Post Approval Changes / Innovation for Access to Medicines

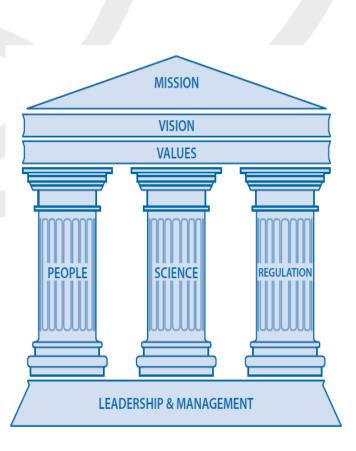
 The Parenteral Drug Association (PDA) has announced its program to reduce hurdles to pharmaceutical manufacturing innovation caused by disparate national regulations that discourage changes.



### **CONNECTING PEOPLE**



# Strategic Element **PEOPLE**





### **PDA Strategic Activities - PEOPLE**

### • GROWTH

- Membership is growing Over 10,000
- PDA Brazil is PDA's newest chapter
- INTERNATIONAL OUTREACH
  - 41% of membership is outside US
- SERVICE
  - More members attending events (conference & training)

### Volunteer Driven..

• More than 2,500 active volunteers

#### Board of Directors

- PDA President reports to Chair of Board
- PDA Staff reports to President

#### Advisory Boards

- Science Advisory (SAB) Pharmaceutical focus
- Bio Advisory (BioAB) Biotech focus
- Regulatory Affairs and Quality (RAQAB)
- Education Advisory Board (EAB)

#### Committees

 Awards, Audit, Chapters, Executive, Exhibits, Interest Groups, Membership, Nominating, Strategic Planning, Conference Planning Committees

#### Task Forces

For every Technical Report & Regulatory Comment (more than 70)







### **Parenteral Drug Association**





2017 PDA PDA **SHU** Pharmaceutical **Quality Metrics** and Quality Culture Conference February 21-22, 2017 Bethesda, MD #2017Metrics

2017 PDA **Annual Meeting** April 3-5, 2017 Anaheim, California #2017Annual



Pre-filled Syringes & Injection Devices

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Save the Date

pda.org/2017PAC



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### **2017 Conferences**

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| ) ) )               | 1 / PDA Schedule of Event  | C.                             |
| $\angle \cup$       | / PDA Schedule of Evenic   | .> CURRENT AS OF<br>12/12/2016 |
| 01750               |  |                                |
| DATES               | EVENT  | LOCATION                       |
| FEBRUARY 14-15      | 2017 PDA Europe Pharmaceutical Microbiology<br>2017 PDA Pharmaceutical Quality Metrics and Quality | Porto, Portugal                |
| FEBRUARY 21-22      | Culture Conference   | Bethesda, MD                   |
| MARCH 13            | 2017 PDA Europe Interest Group Meeting Pre-Filled<br>Svringes                                      | Barcelona, Spain               |
| MARCH 14-15         | 2017 PDA Europe Parenteral Packaging   | Barcelona, Spain               |
| MARCH 21-23         | INTERPHEX  | New York, NY                   |
| MARCH 21            | 2017 PDA Europe IG Mtg Visual Inspect. & Freeze Drying   | Berlin, Germany                |
| MARCH 22-23         | 2017 PDA Europe An Introduction to Visual Inspection   |                                |
| APRIL 3-5           | 2017 PDA Annual Meeting  | Anaheim, CA                    |
| APRIL 5-6           | 2017 PDA Cell and Gene Therapy Workshop  | Anaheim, CA                    |
| APRIL 26-27         | 2017 PDA Europe Fill & Finish for Prefilled Syringes   | Lindau, Germany                |
| MAY 8-9             | 2017 PDA Extractables & Leachables Workshop  | Washington, DC                 |
| MAY 10-11           | 2017 PDA Annex 1 Workshop  | Washington, DC                 |
| MAY 10              | 2017 PDA Pre-Filled Syringe Interest Group Meeting   | Bethesda, MD                   |
| MAY 11              | 2017 PDA Combination Products Interest Group Meeting   | Bethesda, MD                   |
| MAY 30-JUNE 1       | 2017 PDA Europe Virus & TSE Safety Forum   | Dubrovnik, Croatia             |
| JUNE 13- 14         | 2017 2 <sup>rd</sup> PDA Europe Annual Meeting   | Berlin, Germany                |
| JUNE 19-20          | 2017 PDA Quality Risk Management for Manufacturing<br>Systems Conference                           | Chicago, IL                    |
| JUNE 26-27          | 2017 PDA Biosimilars Conference  | Bethesda, MD                   |
| JUNE 27-28          | 2017 PDA Europe Advanced Therapy Medicinal Products  | Valencia, Spain                |
| SEPTEMBER 11-13     | 2017 PDA/FDA Joint Regulatory Conference   | Washington, DC                 |
| SEPTEMBER 13-14     | 2017 PDA PAC iAM Workshop  | Washington, DC                 |
| SEPTEMBER 19-20     | 2017 PDA Europe Pharmaceutical Freeze Drying<br>Technology   | Cologne, Germany               |
| SEPTEMBER 26-27     | 2017 PDA Europe 10 <sup>th</sup> Workshop Monoclonal Antib coles                                   | Berlin, Germany                |
| SEPTEMBER 27-29     | 2017 PDA Europe Training Week Visual Inspection  | Berlin, Germany                |
| OCTOBER 10-11       | 2017 PDA Europe Pharmaceutical Cold & Supply Chain<br>Logistics                                    | Rotteream,<br>Netherlands      |
| OCTOBER 16-18       | 12th Annual PDA Conference on Pharmaceutical<br>Microbiology                                       | Bethesda, MD                   |
| OCTOBER 18-19       | 2017 PDA Endotoxins Workshop   | Pethesda, MD                   |
| OCTOBER 23-24       |  | Bethesda, MD                   |
| NOVEMBER 7-8        | 2017 PDA Europe The Universe of Pre-filled Syringes & Inlection Devices                            | Vienna, Austria                |
| NOVEMBER 21-22      | 2017 PDA Europe Outsourcing & Contract Manufacturing   | Munich, Germany                |
| DECEMBER 5-6        | 2017 PDA Cell and Gene Therapy Conference  | San Diego, CA                  |
| Subject to change w | www.pda.org/calendar CONFERENCE WOR  | RKSHOP/FORUM                   |

#### 3 Workshops on Cell and Gene Therapy/ATMP

#### **4 Meetings on Combination Products**

#### **3 Meetings on Visual Inspection**

#### **Continuing focus:**

- Annual Meetings in US and Europe
- 2 Microbiology Meetings + 1 Endotoxin Meeting
- Quality & Regulatory Meetings: (PDA/FDA, Quality Metrics, Annex 1, QRM, PAC iAM, Cold Chain)
- Biotech meetings: (Biosimilars, Virus/TSE, MAb)
- And others...

#### **Connecting People, Science & Regulation**®



### PDA Connect<sup>SM</sup>



| PDA Connect SM<br>Parenteral Drug Association<br>Connecting People, Science and Regulation ®           | My Optic  | ons▼ My Links ▼ Admin ▼  |
|--|---|--|
| My Home 👻 Interest Groups 🔹 Chapters 👻 Files 👻   | PDA.org Help 👻  |  |
|  |   | Communities Home Admin Options 🔻                                     |
|  |   | Community Home Add to Favorites Actions -                            |
| $\bigcirc$   | PDA Brazil C  | hapter PDA   |
| lelcome  |   | Leadership Contact Info  |
| Velcome to the PDA Brazil Chapter!   |   | Group Leader<br>Leonidas Orjuela<br>Audisis Vale                     |
| No Posts   | Group Announcements No Posts  | Email: leoidas@audisisvale.co  |
| View All Add a New Thread  | View All Post a New Announcement  |  |
| PDA Connect Blog   | Calendar  | Career Center Hot Jobs   |
| Aichele Myers on ATMPs   | None  | Microbiology Laboratory Manager                                      |
| Norking document QAS/16.671: GUIDELINES ON<br>/ALIDATION - APPENDIX 4: ANALYTICAL METHOD<br>/ALIDATION | View Calendar Add a Calendar Item   | Brooklyn, NY<br>LIU Brooklyn   |
| Part III of It and Manufacturing Video Series  | File Library  | Quality Assurance Specialist I-IV<br>Tarrytown, NY                   |
| Part II of Harnessing IT in Manufacturing  | PDA Capital Area Chapter Presentation "CMC Issues for<br>Richaricals Manufacturing" | Regeneron Pharmaceuticals  |
| New PDA Letter On the Issue Video Available  | Biologicals Manufacturing"<br>November 13, 2014 - 01:56 PM                          | Senior Research Scientist/Senior                                     |
| View All   | View All Share a New File   | Research Investigator<br>NJ<br>Bristol-Myers Squibb                  |
|  |   | Sr. Manager QC Environmental<br>Monitoring<br>Phoenix, AZ<br>Celgene |
|  |   | View All Jobs  |
|  |   |  |
| STAY IN TOUCH  |   |  |
|  |   |  |

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### **Where Excellence Begins...**



#### 2017 PDA U.S. Education Courses JANUARY - OCTOBER



Check PDAtraining.org for an updated list of courses

| DATES  | COURSE NAME   | LOCATION     |
|--|---|--------------|
| /23 – 1/27<br>/20 – 2/24   | Aseptic Processing Option 1   pda.org/2017aseptic1  | Bethesda, MD |
| /6 – 2/9   | Sundamentals of Aseptic Processing (Feb)   pda.org/2017FundAPGOV  | Bethesda, MD |
| /28 – 3/3<br>/28<br>/1 – 3/2<br>/3   | Train the Trainer Course Series   pda.org/2017Trainer Qualifying Your SMEs as Trainers Learning, Knowledge Management and Impact: Moving from Theory to Practice Designing/Presenting QKD Training Programs to Meet FDA Requirements  | Bethesda, MD |
| /6 - 3/10<br>/6<br>/7 - 3/8<br>/9 - 3/10                                   | Visual Inspection Course Series   pda.org/2017/I<br>Visual Inspection Course Series   pda.org/2017/I<br>Identification and Classification of Nonconformities in Molded and Tubular Glass Containers<br>for Pharmaceutical Manufacturing<br>An Introduction to Visual Inspection (Mar)<br>Foreign Particulate Examination, isolation and Analysis                                      | Bethesda, MD |
| /13 - 3/17<br>/13 - 3/14<br>/15<br>/16 - 3/17                              | Validation Course Series   pda.org/2017/VCS     Development and Implementation of Qualification and Validation Protocols – A Risk and Science Based Approach     Applying Six Signa Techniques to the Process Validation Lifecycle     Analytical Method Qualification, Validation, Verification and Transfer for Biotechnological Products   | Bethesda, MD |
| /21 - 3/23   | Y Design, Operation and Qualification of Pharmaceutical Water Systems   pda.org/2017PWS   | Bethesda, MD |
| /27 - 3/31<br>/24 - 4/28   | Aseptic Processing Option 2   pda.org/2017aseptic2  | Bethesda, MD |
| 1/6 – 4/7<br>1/6 – 4/7<br>1/6 – 4/7<br>1/6 – 4/7<br>1/6 – 4/7<br>1/6 – 4/7 | 2017 PDA Annual Meeting Course Series   pda.org/2017AnnualCourses     Immediately following the PDA Annual Meeting     Quality Metrics and Quality Culture     Cleanroom Management     Quality Strategy for Biopharmaceuticals     Knowledge Management Applied in Facilities & Engineering to Improve Manufacturing Reliability     Container Closure Systems and Integrity Testing | Anaheim, CA  |
| /11 - 4/13   | Validation of Biotechnology-Related Cleaning Processes (Apr)   pda.org/2017AprBio   | Bethesda, MD |
| /18 - 4/20   | Airflow Visualization Techniques and Practices (Apr)   pda.org/2017AprAir   | Bethesda, MD |
| V/18 - 4/21<br>V/18<br>V/19<br>V/20<br>V/21                                | Regulatory and Compliance Course Series   pda.org/2017RCS     Regulatory Aspects of Microbiology in a Non-Sterile Environment     Environmental Control and Monitoring for Regulatory Compliance     Establishing and Implementing an Effective GMP Audit Program     Preparing and Managing Documents and Documentation for Compliance   | Bethesda, MD |
| i/1 – 5/4  | Fundamentals of Aseptic Processing (May)   pda.org/2017FundAPT  | Bethesda, MD |
| /12  | Technical and Regulatory Challenges of Combination Products, Drug Delivery Products –     Prefiled Syringes, Autoinjectors and Injection Pens   pda.org/2017TRC     Immediately following the PDA Pre-Filled Syringes Interest Group Meeting and PDA Combination Products     Interest Group Meeting  | Bethesda, MD |
| 5/15 – 5/19<br>5/12 – 6/16   | Aseptic Processing Option 3   pda.org/2017aseptic3  | Bethesda, MD |
| /22 - 5/25<br>/22 - 5/23<br>/24 - 5/25                                     | Y Lyophilization Course Series   pda.org/2017Lyo<br>Fundamentals of Lyophilization<br>Validation of Lyophilization  | Bethesda, MD |
| /23 - 5/24   | Single Use Systems for the Manufacturing of Parenteral Products   pda.org/2017SUS   | Bethesda, MD |
| /31 - 6/2  | Validation of Moist Heat Sterilization Processes (May)   pda.org/2017MayMH  | Bethesda, MD |



#### 🔄 Subscribe to Em

#### Global Event Calendar and Registration

| PDA #100 Aseptic Processing Option 1 - Sold Out                            |              |
|--|--------------|
| Jan 23 - Feb 24, 2017 / Bethesda, MD                                       | Sold Out     |
| End-to-End Pharmaceutical Manufacturing Training                           |              |
| Jan 23 - Feb 03, 2017 / Bethesda, Maryland                                 | Closed       |
| Fundamentals of Aseptic Processing - February - Regulatory Only (SOLD OUT) |              |
| Feb 06 - Feb 09, 2017 / Bethesda, MD                                       | Sold Out     |
| Practical Guide for Root Cause Investigations - Methodology & Tool Kit     |              |
| Feb 16 - Feb 17, 2017 / Porto, Portugal                                    | Register Now |
| Rapid Microbiological Methods  |              |
| Feb 16 - Feb 17, 2017 / Porto, Portugal                                    | Register Now |
| Train the Trainer Course Series  |              |
| Feb 28 - Mar 03, 2017 / Bethesda, MD                                       | Register Now |
| Qualifying Your SMEs as Trainers   |              |
| Feb 28, 2017 / Bethesda, MD  | Register Now |
| Learning, Knowledge Management and Impact: Moving from Theory to Practice  |              |
| Mar 01 - Mar 02, 2017 / Bethesda, MD                                       | Register Now |

### Some of Our Training Experiences



- US FDA
- EMA
- Irish Medicines Board (now HPRA)
- MHRA
- Italian Inspectorate
- Kazakhstan Ministry of Health
- Health Canada

- Russian Ministry of Health
- CFDA
- ANVISA
- PIC/S
- Individual pharmaceutical companies
- Company executive management

China Food and Drug Administration

AGÊNCIA NACIONAL DE VIGILÂNCIA SANITÁRIA



IRISH MEDICINES BOARD



HPF

ANVISA







PTC/S

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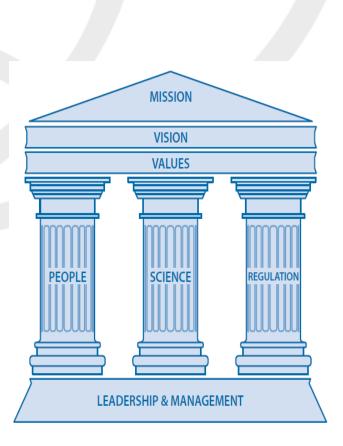
EUROPEAN MEDICINES AGENCY

SCIENCE MEDICINES HEALTH

### **Connecting** *Science*



# Strategic Element SCIENCE



**Connecting People, Science & Regulation**®

### **PDA's Science-Based Activities**



**Connecting People, Science & Regulation**®

### **Publications**





Letter

Break

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**PDA** Letter

Case Studies in ioburden Testing

of the Sandbox to

Career Breaks: Paths to Reentry

New Age of Medicines

Needs New

Approaches

Which Laboratory

One For Your Lab

Per

24 Case Studies in

Bioburden Testing

PDA Remembers

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2014 Visual Inspection



#### 42 Inspections: Ready for the Changes? **Connecting People, Science & Regulation**®

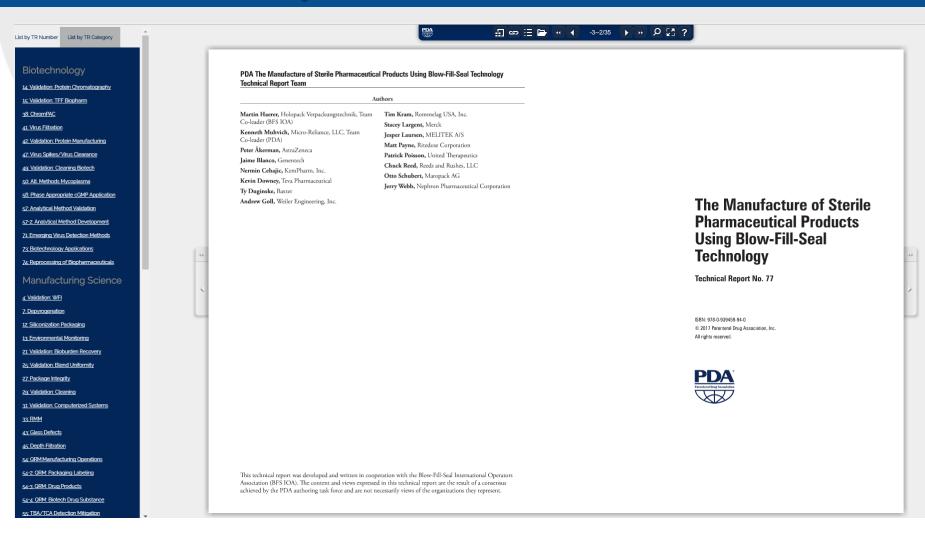
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join PEA's community of experts

FDA Letter podcasts

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### **Technical Report Portal**



#### All PDA members have access to all PDA TRs via TR Portal

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### **PDA Strategic Activities - SCIENCE**





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PDA

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### **2017 will continue these efforts**



#### PDA<sup>®</sup> Parenteral Drug Association

#### **Technical Report No. 77**

The Manufacture of Sterile Pharmaceutical Products Using Blow-Fill-Seal Technology



**Just Published!** 

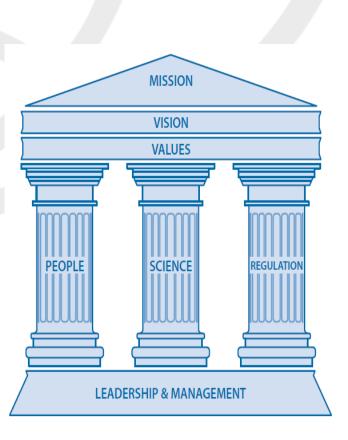
#### Coming soon...

- TR 60-2: Process Validation: A Lifecycle Approach - Solid and Semi-Solid Dosage Case Studies
- Aging Facilities White Paper
- QRM For Equipment, Facilities, And Critical Utilities: A Life Cycle Approach To Managing Risk Throughout The Design, Qualification, And Operation Of Manufacturing Systems (R08)
- Data Integrity Technical Report --Laboratory Systems

### **Connecting** *Regulation*



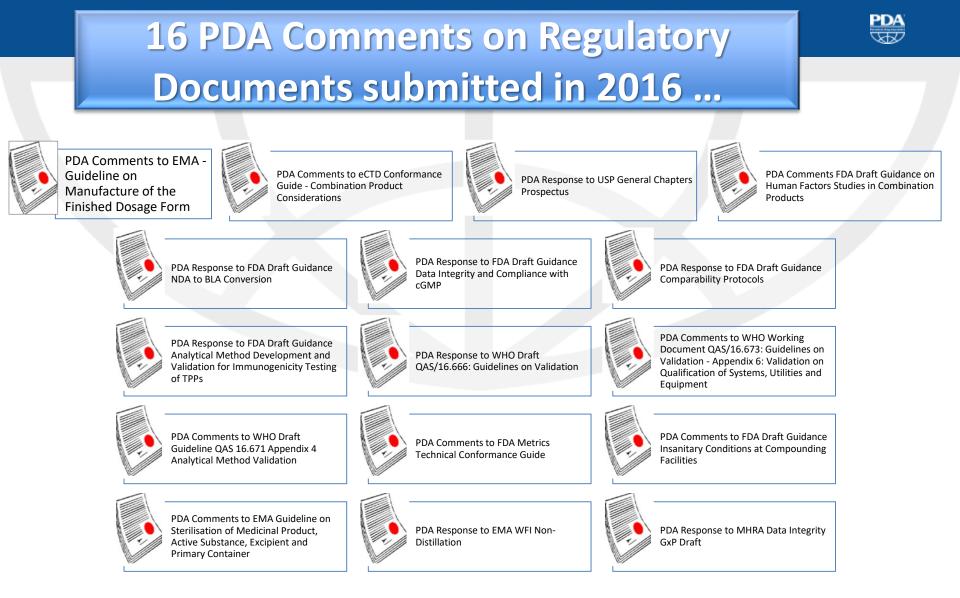
# Strategic Element **REGULATION**



**Connecting People, Science & Regulation®** 

### Regulatory Policy and Quality Activities

- Monitor Global Regulatory Activity
  - Primary Focus: U.S. and European Regulatory Agencies
    - Includes International Conference on Harmonization (ICH), PIC/S, USP, EP and World Health Organization (WHO)
  - Developing interest in Asia, Brazil and India
- Influence Global Regulatory Policy
  - Interactions with global regulatory authorities
  - Co-sponsor meetings with Regulators (FDA, EMA, PIC/S, ICH, ANVISA)
  - Comments on proposed regulations and guidance
  - Promote science-based regulations



#### **Connecting People, Science & Regulation**®

### **Key Regulatory Initiatives**



PDA Survey

2014 Quality Calture Metrics

### Drug Shortages

2014 PDA Drug Shortage Workshop The Prevention and Resolution of Shortages September 9-10, 2014 RENAISSANCE WASHINGTON HOTEL WASHINGTON, DC

2015 PDA

Pharmaceutical

**Quality Metrics** 

Putting Theory into Practice

November 9-10, 2015

Operationalizing Quality Metrics:

Conference

Bethesda, MD



PDA

জান্য

### Quality Metrics/Culture



2014 PDA Pharmaceutical Quality Metrics Conference Exploring Quality Culture and Quality Systems Maturity

December 2-4, 2014 Omni Shoreham Hotel, Washington DC Exhibition: December 2-3 Course: December 5

#### Post-Approval Changes



2015 PDA Manufacturing Science Workshop Advancing Pharmaceutical Manufacturing with Continuous Manufacturing and Efficient Implementation of Post Approval Change September 30-October 1, 2015 | Washington, DC Renaissance Washington, DC Downtown Hotel



### Data Integrity





PDA Three Global Meetings from #2016data Which to Choose

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2017 PDA Pharmaceutical Quality Metrics and Quality Culture Conference February 21-22, 2017 Bethesda, MD #2017Metrics

PDA Points To Consider: Fundamental Concepts in Data

Integrity

In Interneting Academic reserve Ac.



pda.org/2017PAC

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## PDA Member Relations 4350 East West Hwy. Suite 600, Bethesda, MD USA info@pda.org or +1-301-656-5900

## Speaker's Contact Information johnson@pda.org

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