# ISPE GAMP® Community of Practice

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September 20th 2023

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- Heather Longden is an independent regulatory compliance consultant to the pharmaceutical industry.
- With over 30 years experience at a major life sciences company, Heather specializes in data integrity, regulatory compliance, data management, Good Laboratory Practice (GLP), Good Manufacturing Practice (GMP) and computer system validation.
- Engaged in ISPE activities and leadership, specifically
  - In a leadership role on the ISPE GAMP Americas steering committee.
  - As a Boston Area Chapter Board director, and on their Education Program Committee (EPC), where she plays a vital role connecting regulatory and industry speakers and contributors

Making Compliance and Data Integrity Interesting

#### **Disclaimer**

This presentation contains statement of facts and opinions of the presenter and not necessarily the opinion or position of our employers

Acknowledgement: CoP-related content developed from slides shared by GAMP Steering Committee



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#### LS0

#### **GAMP CoP**

The ISPE GAMP Community of Practice (CoP) promotes the understanding of the regulations and use of computerized systems, control systems and intelligent instruments within the pharmaceutical, biopharmaceutical, medical device industries and other regulated healthcare institutions.

And focus to ensure...

# patient safety product quality data integrity



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**LS0** suggest something about promotes the understanding of the regulations and controls for the use... and

focused to ensure....patient safety etc.

Lorrie Schuessler, 2023-09-01T16:00:10.962

#### **Quick Quiz – What Do You Know About GAMP?**

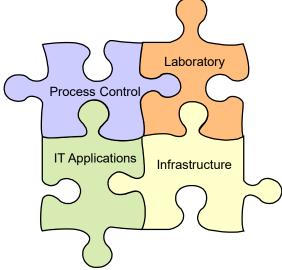
- 1. GAMP® stands for:
  - a. Grand Attempts at Maximizing Paperwork
  - b. Gradually Achieving Maximum Perfection
  - c. A large umbrella named after Mrs. Gamp, a character in Charles Dickens's novel "Martin Chuzzlewit."
  - d. Good Alcohol Management Practice
  - e. Good Automated Manufacturing Practices
  - **GAMP®** f.
- 2. True or False GAMP® is limited to Manufacturing



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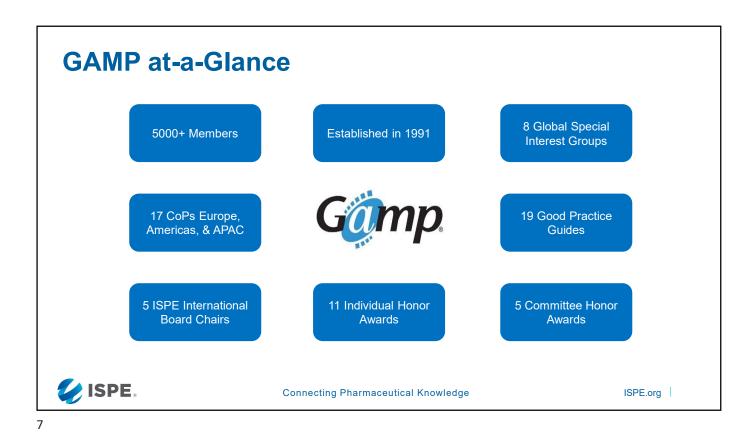
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# **GAMP®5 Scope & Application**



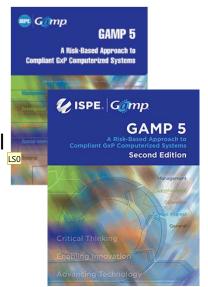


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#### **GAMP® 5 Baseline Guide**

- The leading industry guidance on Computer Systems Compliance
- · Significant regulatory input
- A common international framework for all
- Available in several languages
- Updated to GAMP<sup>®</sup> 5, 2<sup>nd</sup> Edition in 2022





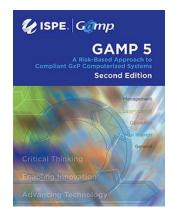
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**LS0** missing something
Lorrie Schuessler, 2023-09-01T16:01:06.457

#### **GAMP® 5 Second Edition**

- New Content
  - -Agile
  - -Software Tools
  - -Distributed Ledger Systems (Blockchain)
  - -Artificial Intelligence and Machine Learning (AI/ML)
  - -Critical Thinking
    - Essential for "CSA" concept and Risk **Based Testing activities**



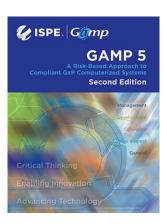


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#### **GAMP® 5 Second Edition**

- Updated topics
  - -Specifying Requirements
  - -Electronic Production Records
  - -Operation Phase and IT Service Management



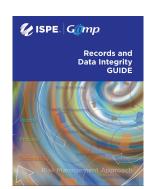


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# **GAMP® Records and Data Integrity Baseline Guide**

#### Key benefits:

- Data integrity requirements, critical areas of regulatory focus and concern, and key concepts
- Framework for data governance and the importance of human factors
- Complete data life cycle approach as part of a Quality
   Management System (QMS), from creation to destruction
- How to apply the Quality Risk Management (QRM) approach from ISPE GAMP® 5 to record and data integrity
- More detailed information, including "how to" guidance for specific topics, in a series of management, development, and operation appendices



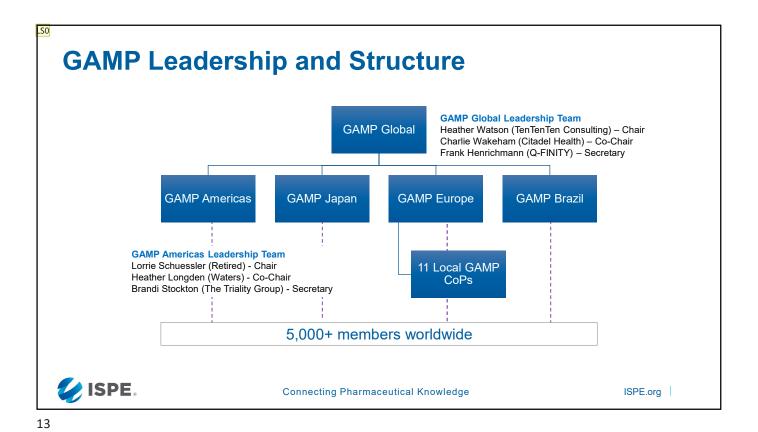


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# GAMP® Guidance - Good Practice Guides (GPGs) | SISPE Gmp | Records and Data Integral to Compare Guide Guide



Global GAMP Special Interest Groups (SIGs)

## Software Automation & Artificial Intelligence

To explore, educate, and bring regulatory/compliance awareness of innovative technologies such as software automation (ex. RPA) and artificial intelligence (ex. ML) to the pharma and biotech industry.

Eric Staib 👰 estaib@gmail.com

#### **Blockchain**

To help enable the adoption of blockchain technology in regulated environments by exploring use cases, sharing lessons learned, and contributing to thought leadership around this topic.

Jamey Canterbury igmes.canterbury@ey.com

#### Cloud

To provide industry guidance and establish clear roles and responsibilities for the use of Cloud solutions in regulated (e.g., GxP) space.

Anders Vidstrup avid@nnit.com

#### **Risk Management**

To research, explore and propose new models, tools and approaches based on the latest technologies and innovations in the data science and computing areas (i.e., AI, ML) that can be applied to the Quality Risk Management process to make it more objective, predictive, and efficient in order to protect patients' safety and health.

acorinne.liabeuf@glpg.com



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**LSO** not related to slides - maybe the way to simplify would be to promote all of the gamp european cops to the same level as americas

Lorrie Schuessler, 2023-09-01T16:04:37.244

#### **Global GAMP Special Interest Groups (SIGs)**

#### **CSA**

To develop practical approaches to optimizing validation activities through increased focus on Quality Risk Management and critical thinking in line with FDA's Case for Quality and GAMP 5 Second Edition.



charlie.wakeham@citadelhealth.com.au

#### **MES**

Define industry best practices for MES project initiation, planning, execution and operations by establishing a silo breaking collaboration of vendors, industry manufacturers, Quality organizations, consultants and regulators and all involved stakeholders.



🖄 christian.woelbeling@koerber.com

#### **Agile**

To illustrate how Agile software development practices can be used in support of the validation of GxP regulated computerised systems.



mark.cherry@astrazeneca.com

#### **eClinical**

To provide market support for all validation aspects related to computerized GCP system, including understanding the business process and the unique risks, enabling innovation and managing the complex computerized systems across a variety of infrastructure platforms and organizations. Working to update eClinical Guide.

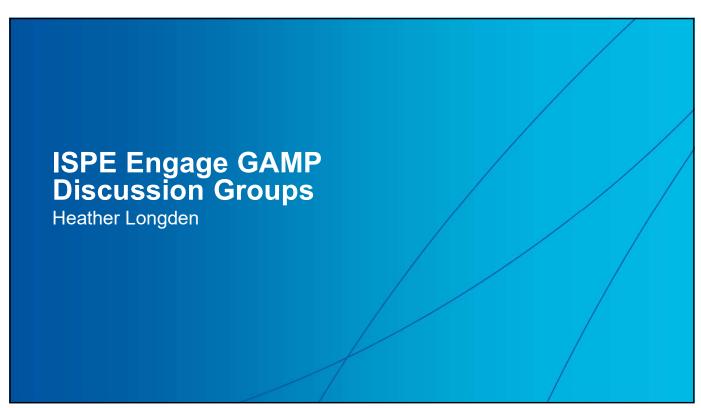


oliverherrmann@q-finity.de



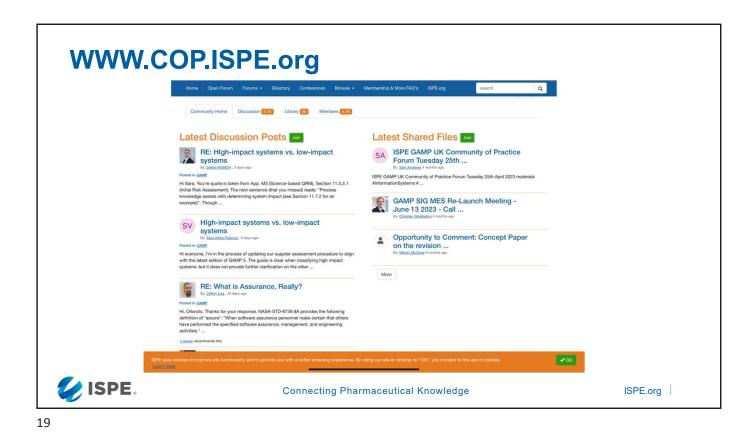
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#### Forums and Discussions to join

Follow discussions in your area of interest

Subscribe to have updates come to your email

- The email brings you the text content to read
- You only have to click and log in to comment

**GAMP Community** 

GAMP Blockchain Special Interest Group

**GAMP Computer Software Assurance SIG** 

GAMP Data Integrity Special Interest Group

**GAMP MES Special Interest Group** 

Commissioning and Qualification Regulatory and Quality Networking ISPE News and Events Community Emerging Leaders Community Women in Pharma

Boston Chapter or www.ispeboston.org



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#### **GAMP – How to Get Involved**

Update Your Member Profile to join GAMP CoPs









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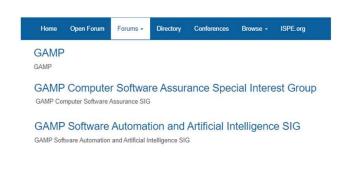
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#### **GAMP – How to Get Involved**

Follow discussions and/or subscribe



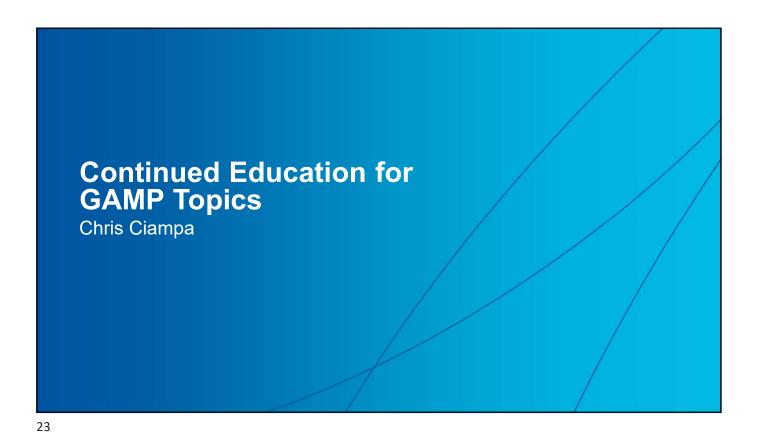






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#### Webinars/Expert Xchanges

NEW: All Webinars will be <u>free to ISPE Members</u> with registration fees for non-Members

• <u>Webinar</u>: Ensuring Data Integrity - Trends, Challenges and Best Practices 20-September-2023

11:00 - 12:00 EDT

Charles Yardley (Verista), Jeff Onis (Catalent Pharma Solutions), James Li (Abbott), Don Brown (Verista), Wesley A. Bloemker (Verista), Eric Watkins (Verista)

- · Sponsored complimentary webinars
- On demand replay of webinars for ISPE Members
- · Expert Exchange 'tutorial style' webinars PAID



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#### **Examples of free on-demand extended webinars from GAMP**

# Discover your Data – A Case Study on Data Flow Diagrams and Data Integrity Explore the GAMP Data Integrity by Design Guide Webinar Complimentary Learning Learning Learning Complimentary Learning Learning Complimentary Learning C

Complimentary Learning Level: Intermediate Session Length: 1 hour Data integrity is strengthened through a detailed understanding of your data – how it is created, where it is stored, what other data is elevant, and how and...

Complimentary Learning Level: Intermediate Session Length: 60 minutes Based on the new ISPE GAMP Data Integrity by Design Guide, this webinar will examine the underlying concepts around designing data integrity into your.

# Analytical Instrument Qualification – A Continuum of Requirements, from USP <1058> to GAMP® 5 Webinar

Learning Level: Basic/Intermediate - Analytical laboratories are required to demonstrate the suitability of their equipment during audits and will typically follow USP requirements defined in Chapter <1058> on analytical...



The Importance of Data Integrity for Machine Learning: A Data Lifecycle Model

Extended Learning Level: Intermediate Session Length: 1.5 hour Artificial Intelligence (AI) is a broad field of study within computer science that includes technologies such as Machine Learning (ML), as well as deep...



Foundation of Proof - Exploring

Extended Learning Learning Level: Intermediate Session Length: 1.5 hours In this 90-minute webinar we will take a closer look at the technology that is used behind blockchain protocols with a focus on the cryptographic...



GAMP® 5, FDA CSA, and the Future of Computer Systems Validation Webinar

Extended Learning Learning Level: Intermediate Session Length: 1.5 hours Extended Learning
Webinars take a 90-minute deeper dive into
industry-critical topics you want and need to learn
more about. Benefit from in-depth...



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#### **GAMP Expert Exchange tutorials**

Did you miss ISPE Expert Xchange: Pharma 4.0" or ISPE Expert Xchange: GAMP: Implementing Data





ISPE Expert Xchange GAMP® Realizing the Value in Validation Critical Thinking and Computer

Extended Learning - On Demand



Extended Learning – On Demand



Extended style Expert Exchange tutorials -paid registration required



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# **GAMP** Training by experts: Online, On Demand and Live In-Person



link to ISPE GAMP Training page

- Requirements for Computerized Systems Validation and Compliance
- Basic Principles of Computerized Systems Compliance
- GAMP® Basic Principles Training Course
- Practical Application of Computerized Systems Compliance: Applying the GAMP® 5 Guide: A Risk-based Approach to Compliant GxP Computerized Systems
- GAMP® Part 11 Training Course
- GAMP® 5, Annex 11/Part 11 Basic Principles Training Course
- GAMP® Data Integrity 21 CFR Part 11 Training Course
- GAMP® 5 GxP Process Control Training Course
- PLUS: Custom courses for delivery WITHIN single companies



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#### 2023 GAMP® Training Courses (Completed)

Date	Course	Type	Instructor
JAN	GAMP Data Integrity	Custom	Wyn
FEB	Basic GAMP5 & Part 11	ILC	Wyn
FEB	GAMP Data Integrity	ILC	Cappucci
APR	Basic GAMP5 & Part 11	ILC	Wingate
APR/MAY	Basic GAMP5 & Part 11 / GAMP Data Integrity	Custom	Perez
MAY (@ EU Annual Mtg.)	Basic GAMP5 & Part 11	ILC	Wyn
JUN	GAMP GAMP5 & Part 11	ILC	Cappucci
JUN	Process Control GAMP	ILC	Wingate
JUN	Process Control GAMP	Custom	Wingate
JUN	Basic GAMP5 & Part 11	Custom	Wingate
JUN	GAMP Data Integrity	ILC	Henrichmann
JUL	Basic GAMP5 & Part 11	Custom	Cappucci



<u>Custom</u>: There are multiple inquiries for custom GAMP training that are in the various negotiating stages.

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LSO in addition to the general course offerings, custom courses can be provided to individual companies....I do not think I am saying that well...but hopefully you understand what I am saying

Lorrie Schuessler, 2023-09-01T16:06:44.337

#### **2023 GAMP® Training Courses (Planned)**

Date	Course	Туре	Instructor
SEP	Basic GAMP5 & Part 11	ILC	Henrichmann
SEP	Basic GAMP5 & Part 11	Custom	Wyn
ОСТ	Basic GAMP5 & Part 11	ILC	Perez
OCT (@ Annual Mtg)	Basic GAMP5 & Part 11	ILC	Herrmann
OCT (@ Annual Mtg)	GAMP Data Integrity	ILC	Cappucci
ОСТ	Cloud Computing Concepts	Custom	Wyn
DEC	Basic GAMP5 & Part 11	ILC	Herrmann
DEC	Basic GAMP5 & Part 11	ILC	Wyn



<u>Custom</u>: There are multiple inquiries for custom GAMP training that are in the various negotiating stages.

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#### **Boston Chapter - GAMP Local CoP**

Local GAMP CoP Objectives

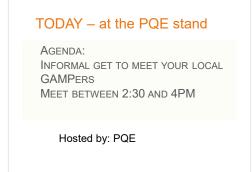
- Networking
- Expert support and questions
- Education events
- Speaker connections





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### **Boston Chapter – Upcoming GAMP Events**







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