

# IHE USA Announces New Plug-a-thons

IHE North American Connectathon 2018  
January 15-19, 2018

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- Webinar will be recorded and posted online at [www.iheusa.org/webinars-ihe-usa](http://www.iheusa.org/webinars-ihe-usa)
- We will host a Q&A session at the end of the webinar
- Submit your questions in advance using the Q&A box on the lower left hand of your WebEx



# Today's Speakers



John D. Donnelly  
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Todd Cooper  
Technical Project Manager, Devices on FHIR  
Email: [toddcooperafc@gmail.com](mailto:toddcooperafc@gmail.com)

# Today's Speakers



Lisa Spellman  
Technical Project Manager, Internet of Things - Medical  
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James St. Clair  
Technical Project Manager, Blockchain - Healthcare  
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# Today's Agenda

IHE NA Connectathon 2018 Venue

IHE Plug-a-thon Track Introduction

Highlights of Each Plug-a-thon Track

New Sponsorship Opportunity

Track Participant Registration Process

On the Road to Plug-a-thon 2018

# IHE North American Connectathon 2018

## *January 15-19, 2018*

- Co-location of IHE USA's new Plug-a-thon tracks
- Huntington Convention Center of Cleveland and HIMSS Innovation Center
- Downtown Cleveland, Ohio

Visit their websites to learn more at [himssinnovationcenter.org](http://himssinnovationcenter.org) and [clevelandconventions.com](http://clevelandconventions.com)





# IHE USA Introduces Plug-a-thons

- Organized around specific Health IT topics in developmental stage of connectivity or interoperability maturity
- Provides a venue for connectivity options and opportunities to be discussed, presented, developed and tested by partner systems
- Test targeted use cases determined by participants and sponsors
- Two-day events focused on introductory presentations to increase awareness of potential health IT standards to leverage

# Plug-a-thons...

- Earliest attention to the topic in the product testing continuum
  - Beneficial in informing the standards development process and priorities
- Plug-a-thon track will explore:
  - Problems or use cases in healthcare that can be addressed with this technology
  - How existing standards offerings and non-healthcare industry activities that use this technology could be leveraged
- Binding of different existing IT realms; e.g. Smartphone apps with legacy health IT realm
- Partnering opportunity for new health IT vendors to connect with current healthcare data sources and sponsoring stakeholders
- Successful Plug-a-thon will include education, coding, transaction testing and stakeholder networking



# Health IT Testing Continuum

## IHE Plug-a-thons

- Rigor: Low
- Iterative testing process based on use cases
- Similar to Hackathon
- Standards and code in development
- Code will change on-site

## Connectathons

- Rigor: Medium
- Structured, Peer-to-Peer testing
- Conformance
- Multiple standards
- Established standards

## Conformity Assessment

- Rigor: High
- Selected IHE Profiles in Final Text
- ISO accredited test labs
- Strict version controls

# IHE USA's Plug-a-thon Tracks

- Four Plug-a-thon tracks included at the IHE NA Connectathon 2018
  - mHealth
  - Devices on FHIR®©
  - **New!** Internet of Things - Medical
  - **New!** Blockchain - Healthcare
- Each Track to be managed by a dedicated Technical Project Manager
- Track use cases to be explored and finalized by participants and industry stakeholders / sponsors during pre-event WebEx's

# mHealth Track

Exploration to connect the new, prolific generation of health IT participant; the smartphone app and internet cloud product developer, with the current keepers of healthcare data; the health systems, integrated delivery networks (IDNs), and Health Information Exchanges.

It is a collaborative effort between data “owner” organizations and new, innovative application developers.

## Systems and Applications include:

- Smartphone app developers
- Patient & provider services in the Cloud, and Cloud Interface vendors
- FHIR® enabled apps (edge systems)
- Health system and Health Information Organization’s (with clinical data), FHIR® servers

**mHealth Track:  
January 17-18, 2018**

# mHealth Track

## Speaks to the advancement of innovation in healthcare by:

- Targets small, startup health IT companies to join the interoperability conversation
- Promoting patient-facing applications and Cloud services for new care paradigms
- Potential to “leap-frog” prior health IT standards and build on modern smartphone operating environments and platforms

## Benefits to Participation:

- Low price of entry to be a part of the connectivity solution development
- Get your specific product offering or service and targeted use cases into the IHE standards development process
- Opportunity to share your successes in the topic and learn what pitfalls to avoid

**mHealth Track:  
January 17-18, 2018**

# mHealth Track

Explore, learn and gain hands-on experience with potential use case including:

- Patient identity management
- Multi-location care coordination
- Care protocols involving home-based and self-managed care
- Availability of FHIR®© resources & implementation guides patient-provider information exchange
- Real-world story scenarios that span hospital, home and mobile contexts

Technical Project Managers –

John Donnelly ([jtdonnelly@intepro.biz](mailto:jtdonnelly@intepro.biz)) and Michael Gould ([mjg6288@comcast.net](mailto:mjg6288@comcast.net))

**mHealth Track:  
January 17-18, 2018**

# Devices on FHIR®© Track

Leverages HL7 FHIR to exchange health device information: on-demand, real-time, granular. RESTful technology can simplify utilization of this content in knowledge-driven applications such as clinical decision support, care coordination, precision medicine and analytics (population health & predictive).

Devices on FHIR is a collaborative effort between three organizations: IHE USA, HL7 and Personal Connected Health Alliance

## Systems and Applications include:

- Health Devices (personal health and acute / chronic care)
- Infrastructure systems (gateways, FHIR servers, identity managers)
- Applications and Services (Clinical Decision Support, care coordination, machine / deep-learning, CMMS, etc.)



**Devices on FHIR Track:  
January 16-17, 2018**





# Devices on FHIR Track

## Postnatal Preeclampsia (P3E) Use Case:

Story line: Holly was monitored for preeclampsia (hypertension) during pregnancy; after delivery (postnatal) everyone expected her blood pressure to return to normal, but it didn't. Luckily she was being monitored, the problems quickly identified, her caregivers alerted, and she returned to hospital before the condition progressed to eclampsia and seizures.

## Use case includes:

- In-hospital and at home / mobile care contexts
- Acute point-of-care care devices and personal health devices
- May also include lab including Point of Care devices and transactions
- Location tracking and Device Identification / Association Management
- Cloud-based and “locally” networked systems & applications

**Devices on FHIR Track:  
January 16-17, 2018**

# Devices on FHIR Track

## Participants should have:

- HTTP and web application development tools & technologies experience
- Device or infrastructure or application that can be updated to support Devices on FHIR exchange
- Device simulators can be used, but real hands-on is preferred
- **Sample data sets** will be provided to facilitate parallel Plug-a-thon activities
- **Linkages** with main IHE Connectathon FHIR servers should also be available
- Goal is to have real-time exchange of data from device to server to applications

Technical Project Manager - Todd Cooper (toddcooperafc@gmail.com)

**Devices on FHIR Track:  
January 16-17, 2018**



# Internet of Things - Medical Track

Aimed to explore the new tier of connectivity grounded in the growing number of facility and resource management solutions, as well as medical technology that leverage pervasive sensor networks and control systems.

It is a collaborative effort between facility and resource management, information technology and biomed departments and the maturing sensor marketplace.

## Systems and Applications include:

- Hospital facility management systems
- Hospital biomedical resource management systems
- Sensor manufactures/vendors
- Ambulatory care clinic facility management systems
- Home health care devices and applications

**Internet of Things -  
Medical Track:  
January 16-17, 2018**

# Internet of Things – Medical Track

Speaks to the advancement of innovation in healthcare by:

- Targets small, startup sensor companies to join the healthcare interoperability conversation
- Explores national/ international initiatives and platforms that are incubators for this new “thin” connectivity option
- Identifying the necessary collaboration between standards offerings from multiple technology realms (ISO, IEEE, HI7, IHE, etc.)

## Benefits to Participation:

- Low price of entry to be a part of the connectivity solution development
- Get your specific product offering or service and targeted use cases into the IHE standards development process
- Opportunity to share your successes in the topic and learn what pitfalls to avoid

**mHealth Track:  
January 17-18, 2018**

# Internet of Things - Medical Track

Explore, learn and gain hands-on experience with potential use case including:

- Operations and energy management
- Room automation
- Medical resources tracking
- Post-acute and chronic care management

**Technical Project Manager – Lisa Spellman (lspellman@gmail.com)**

**Internet of Things -  
Medical Track:  
January 16-17, 2018**

# Blockchain Track

Aimed to explore and learn about this new type of trusted connectivity solution that is the technology underpinning the bitcoin phenomenon for creating continuous streams of healthcare information across the medical ecosystem.

It is a collaborative effort between financial, clinical management, and information technology departments to create a new trust community for securely sharing healthcare information across enterprises.

**Blockchain technology has the potential to impact every aspect of health IT.**

**Blockchain Track:  
January 17-18, 2018**



# Blockchain Track

## Systems and Applications that could be revolutionized include:

- Electronic Health Record systems
- Hospital supply chain management systems
- Hospital revenue cycle management systems
- Ambulatory practice management systems

## Blockchain can directly impact the evolution of a number of healthcare processes and use cases to include:

- Patient Identity Management
- Payment Processes
- Medication Information
- Health Information Exchange

**Blockchain Track:  
January 17-18, 2018**

# Blockchain Track

Explore, learn and gain hands-on experience with potential use case including:

- Tooling and open source that can be used for development and conformity assessment
- Terminology and information models for representing device content
- Implementation of blockchain systems
- Integration of blockchain with existing health IT systems
- Information from the ONC blockchain challenge in 2016

Technical Project Manager – James St Clair ([jstclair@healthfintech.org](mailto:jstclair@healthfintech.org))

**Blockchain Track:  
January 17-18, 2018**

# New Plug-a-thon Sponsorship Available

Support vendor collaboration and innovation at the IHE NA Connectathon Plug-a-thons with the industry's top engineers, architects and project managers.

- Open to all stakeholders for that Plug-a-thon topic including:
  - Healthcare industry associations and societies
  - Professional associations and colleges
  - Care provider organizations, regional/state Health Information Organizations and Networks
  - Health IT vendors and trade associations
- Multiple sponsors per track permissible and encouraged
- Open invitation to participate on all Plug-a-thon planning WebEx's

**Contact John Donnelly  
for more information.**

# Sponsorship Benefits

**Marketing:** Company name or logo displayed on:

- All communications promoting the testing track
- Displayed in prominent areas on-site at IHE USA Plug-a-thon
- Featured on IHE USA's website
- Provide an overview of your organization during the Track educational sessions onsite
- Featured at IHE USA presentation at HIMSS18 Annual Conference & Exhibition

**Value:**

- Use of IHE USA Plug-a-thon sponsor designation on own marketing materials
- Daily badge fee waived for attendance at Plug-a-thon onsite
- Vendors zero charge to test 2<sup>nd</sup> system at the IHE NA Connectathon 2018 (\$5,200+ value)\*

**Investment:** \$14,500 full track sponsorship or from \$3,500 for shared track sponsorship

**Contact John Donnelly  
for more information.**

# Participation Fees

Number of Plug-a-thon Tracks	Pre-Register before December 1, 2017 at 11:59pm ET	Register after December 1, 2017
1	\$700	\$1,135
2	\$1,000	\$1,435
3	\$1,300	\$1,735
4	\$1,600	\$2,035

- **Participation fee covers:** Two-day badge for the IHE NA Connectathon, participation at all track-specific and cross-track education and brainstorming sessions, intra and internet communications services, lunch on both days and a Plug-a-thon special networking event on Wednesday evening.
- \$300 discount for 2<sup>nd</sup> person from the same company participating in the same Plug-a-thon Track; contact John Donnelly for more information
- Fee waived for companies participating in the IHE NA Connectathon Classic

# Participation Fees

- Companies can register to participate in more than one track, but are required to staff their testing table(s) with one person at all times of the event.
- Connectathon Classic Participants that register for the Plug-a-thon must have staff available to support testing and test partners in the Connectathon Classic and the Plug-a-thon track(s).
- Special Registration Considerations for Health Care Providers/ Health Information Organizations that bring their data to the mHealth Track. Contact [jtdonnelly@intepro.biz](mailto:jtdonnelly@intepro.biz) for more information.



# Registration Steps

Date	Activity
September 25 – December 15, 2017	Participant registration opens for all Plug-a-thon Tracks; visit <a href="http://www.iheusa.org/plug-a-thon">www.iheusa.org/plug-a-thon</a> to register online.  Technical Project Managers discuss use cases with track participants to finalize use cases.
December 2, 2017	Participation fees increase for all Plug-a-thon Tracks
November 6, 2017 – December 15, 2017	Participants can make payment for participation fees online

Contact John Donnelly at [jtdonnelly@intepro.biz](mailto:jtdonnelly@intepro.biz) or your track technical project manager directly for more information.

# Plug-a-thon Key Activities & Dates

Date	Activity
September 25, 2017 – December 15, 2017	Participant registration opens for all Plug-a-thon Tracks; visit <a href="http://www.iheusa.org/plug-a-thon">www.iheusa.org/plug-a-thon</a> to register online.  Technical Project Managers discuss use cases with track participants to finalize use cases.
November 6, 2017	Participants can make payment for participation fees online
November 6, 2017 – January 12, 2018	Participants attend track-specific WebEx meetings to introduce organizations/participants and complete basic network connectivity requirements
January 16-17, 2018	Devices on FHIR and Internet of Things - Medical Plug-a-thons
January 17-18, 2018	mHealth and Blockchain - Healthcare Plug-a-thons

Contact John Donnelly at [jtdonnelly@intepro.biz](mailto:jtdonnelly@intepro.biz) or your track technical project manager directly for more information.

# Contact Us with Your Questions

Contacts	Email
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IHE USA – General Event Questions	<a href="mailto:Connectathon@ihe.net">Connectathon@ihe.net</a>

# Q&A Session

- Submit your questions in the Q&A box on the lower left hand of your WebEx now
- Today's webinar will be recorded and posted online at [www.iheusa.org/webinars-ihe-usa](http://www.iheusa.org/webinars-ihe-usa)

