ISS World America is the world’s largest gathering of North American Law Enforcement, Intelligence and Homeland Security Analysts as well as Telecom Operators responsible for Lawful Interception, Hi-Tech Electronic Investigations and Network Intelligence Gathering and Sharing.

ISS World Programs present the methodologies and tools for Law Enforcement, Public Safety and Government Intelligence Communities in the fight against drug trafficking, cyber money laundering, human trafficking, terrorism and other criminal activities conducted over today’s Telecommunications networks, the Internet and Social Networks.

**Track 1**
ISS for Lawful Interception and Criminal Investigation

**Track 2**
OSINT Automation for Threat Detection, Deep and Dark Web Monitoring

**Track 3**
ISS for Investigating Criminal Bitcoin Transactions

**Track 4**
LEA, Defense and Intelligence Analyst Training and Product Demonstrations

**Track 5**
Social Network Monitoring and Big Data Analytics Product Demonstrations

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**Advanced Hi-Tech, Cyber Crime Investigation Training**

Training Seminars Led by Law Enforcement Officers and Ph.D Computer Scientists

- 28 classroom training hours, presented by sworn law enforcement officers, Ph.D. Computer Scientists and nationally recognized cybercrime textbook authors and instructors. Distinguished ISS World Training Instructors include:
  - **Charles Cohen**, Cohen Training and Consulting, LLC, also holds the position of Captain, Indiana State Police (6 classroom hours)
  - **Mark Bentley**, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police (7 classroom hours)
  - **Todd G. Shipley** CFE, CFCE, President and CEO of Vere Software, Co-Author of, Investigating Internet Crimes: An Introduction to Solving Crimes in Cyberspace and retired Reno NV, Police Officer (6 classroom hours)
  - **Matthew Lucas** (Ph.D., Computer Science), Vice President, TeleStrategies (4 classroom hours)
  - **Jerry Lucas** (Ph.D., Physics), President, TeleStrategies (5 classroom hours)

**Tuesday, September 13, 2016**

**Seminar #1**

**9:00-5:00 pm**

**Online Social Media and Internet Investigations**

Presented by Charles Cohen, Cohen Training and Consulting, LLC

Charles Cohen also holds the position of Captain, Indiana State Police

**9:00-10:00 am**

**The Role of Online Social Media OSINT in Predicting and Interdicting Spree Killings: Case Studies and Analysis**

**10:15-11:15 am**

**OSINT and Criminal Investigations**

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**11:30-12:30 pm**

**Metadata Exploitation in Criminal Investigations**

**1:30-2:30 pm**

**EXIF Tags and Geolocation of Devices for Investigations and Operational Security**

**2:45-3:45 pm**

**Case Studies in Metadata Vulnerability Exploitation and Facial Recognition**

**4:00-5:00 pm**

**What Investigators Need to Know About Emerging Technologies Used to Hide on the Internet**

**Seminar #2**

**9:00-5:00 pm**

**Practitioners Guide to Internet Investigations**

Presented by Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police

The aim of this 1 day seminar is to take the attendees from the basics of understanding the Internet, how to find data, through to a full understanding of best practice of an Internet investigator, having awareness and knowledge of all the tools available to achieve this. It is aimed primarily at the investigator, delivered from the perspective of detective, to empower them to have the best methodology and tradecraft to profile and catch suspects.

This is exclusively Law Enforcement only, as Practical examples, covert and investigative methodology and tradecraft will be given throughout the seminar.

**9:00-10:00 am**

**The Internet, and How Suspects Leave a Digital Footprint**

**10:15-11:15 am**

**Recognizing Traffic Data and Digital Profiling**

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To Review Complete Agenda or To Register, Go To WWW.ISSWORLDTRAINING.COM
11:30 am -12:30 pm
**WIFI, Geolocation, and Mobile Data Traces**

1:30-2:30 pm
**Awareness of Emerging Technologies, Masking Tech and Tools, TOR and Proxies**

2:45-3:45 pm
**Advanced Techniques in Tracing Suspects and Lateral Problem Solving**

4:00-5:00 pm
**Open Source Tools, Resources and Techniques**

**Seminar #3**

9:00-5:00 pm
**A Real World Look at Investigations in the Dark Web**

*Presented by Todd G. Shipley CFE, CFCE, President and CEO of Vere Software, Co-Author of Investigating Internet Crimes: An Introduction to Solving Crimes in Cyberspace and retired Reno NV, Police Investigator*

The aim of this 1 day seminar is to take the attendees from the basics of understanding the Dark Web, how to access it to how to finding information hidden within it. The attendees will learn the best practices for the internet investigator when working in the Deep Web and the tools available to assist their investigations into the Deep Web.

This exclusively Law Enforcement only, as Practical examples, covert and investigative methods will be given throughout the seminar.

09:00-10:00 am
**The Dark Web, What It Is and What It Is Not**

10:15-11:15 am
**To Tor Or Not To Tor**

11:30 am -12:30 pm
**CryptoCurrency and Its Use In the Dark Web**

1:30-2:30 pm
**Going Undercover On the Dark Web**

2:45-3:45 pm
**Using Web Bugs and Other Technology To Locate a Suspect**

4:00-5:00 pm
**Advanced Dark Web Investigations, Identifying the Anonymous User**

**Seminar #4**

9:00-12:30 pm
**Understanding ISS Product Developments in Telecommunication Networks for Lawful Interception and Mass Surveillance**

*Presented by Dr. Jerry Lucas, President, TeleStrategies*

This half-day seminar covers what law enforcement and intelligence analysts need to understand about today’s public telecommunications wireline and wireless networks as well as ISS technologies and products used to lawfully intercept electronic communications and conduct mass network surveillance as discussed at ISS World Conference sessions and by exhibitors.

10:15-11:15 am
**Interruption to Wirelines and IP Infrastructure and Related ISS Products for Lawful Interception and Mass Surveillance**

11:30-12:30 pm
**Understanding Mobile Wireless Infrastructure, and Related ISS Products for Lawful Interception and Mass Surveillance**

13:30-14:30 pm
**Understanding the Internet Over-the-Top (OTT) Services and Related ISS Products for Mass Intelligence Gathering and Surveillance**

**Seminar #5**

1:30-2:30 pm
**SS7 Network Vulnerabilities and Intercept Options**

*Presented by Dr. Jerry Lucas, President, TeleStrategies and a Distinguished Telecom Technology Expert to be announced*

Last April’s “60 Minutes” episode on SS7 Network vulnerabilities sparked a lot of interest from privacy advocates, Congress as well as law enforcement and the government intelligence community. This session reviews the basics of SS7 Networks, how the “60 Minutes” team “legally” hacked into a call to Congressman Ted Lieu’s office, how else someone could do the same without a large cooperative telecom and what else can be done with SS7 Networks access.

**Seminar #6**

2:45-3:45 pm
**The Implications of Multi-IMSI and OTA for Law Enforcement and the Government Intelligence Community**

*Presented by Dr. Jerry Lucas, President, TeleStrategies and a Distinguished Telecom Technology Expert to be announced*

The era of SIM Cards with static IMSIs issued by cellular operators is changing. Deployment of multi-IMSI as well as network programmable (OTA) SIM cards will create new challenges for law enforcement. This session looks at the implications of multi-SIM and OTA for LEAs and Intel analysts.

**Seminar #7**

4:00-5:00 pm
**Update on IETF/Privacy Group’s Initiatives to Defeat Lawful Interception**

*Presented by Matthew Lucas (Ph.D., Computer Science), Vice President, TeleStrategies*

- IETFs TCP Crypt Initiative making all IP communications effectively dark
- MAC Address Hopping to defeat law enforcement from using MAC addresses to track criminals and terrorists
- Free Certificate Authorities allowing any web site to encrypt its content
- And More
**Seminar #8**
1:30-2:30 pm
**Bitcoin 101: Introduction to What Technical Investigators Need to Know About Bitcoin Transactions, Dark Web Commerce and Blockchain Analysis**
*Presented by Matthew Lucas (Ph.D., Computer Science), Vice President, TeleStrategies*

This 101 training seminar is an introduction to Bitcoin, how the system is used to support criminal activities (e.g. Dark Web) and why technical investigators need to understand the basic Bitcoin transaction mechanism (Blockchain) to successfully defeat 21st century criminals and terrorist actions. Specifically this introduction to Bitcoin for technical investigators addresses:

**Seminar #9**
11:15-12:15 am
**Investigation Techniques for Unmasking TOR Hidden Services and Other Dark Web Operations**
*Presented by Matthew Lucas (Ph.D., Computer Science), Vice President, TeleStrategies*

TOR networks are notoriously effective at hiding the online identity of criminals, terrorists and others who are up to no good. The other side that receives less attention are TOR hidden services. These are services that leverage TOR’s anonymizing capabilities to mask the identity of criminally-hosted online services—forming the basis of just about all illegal gambling sites, drug markets, child exploitation material, firearm sales, terrorism propaganda, and more.

**Seminar #10**
11:30-12:30 pm
**Blockchain Analysis: Best Investigation Practices**
*Presented by Jonathan Levin, Co-Founder, Chainalysis*

A case study focused presentation outlining the major threat actors and the anonymization techniques employed. Will step through some investigations outlining how to get leads in cases or look for corroborative evidence. Will step through some best practice when searching for Blockchain evidence, minimising the time wasted during an investigation. Will answer the important question on when to stop tracing and picking up wallet patterns in the blockchain.

**Seminar #11**
11:30-12:30 pm
**The Computer Science View of Bitcoins and Dark Markets**
*Presented by Nicholas Weaver, Ph.D. is a researcher at the International Computer Science Institute in Berkeley. His primary research is focused on network security, including worms, botnets, and other internet-scale attacks, network measurement, and network criminality including Bitcoin.*

The research community has devoted significant effort into understanding Bitcoin and the associated criminal activities - the results of which have promise to transform how law enforcement might handle Bitcoin investigations going forward. This speaker will present relevant Bitcoin/Dark Web investigation research including clustering to mass-deanonymize Bitcoin transactions, “tumblers” and Dark Markets; and why recording transactions is critical for de-anonymization success; robust estimates on the scale of Dark Markets and the daily volume of currency exchanged off/from Bitcoin ($500,000/day); and experiments involving merging datasets with the Bitcoin blockchain.

**Seminar #12**
12:00-1:00 pm
**Understanding and Defeating TOR and Encryption**
*Presented by Matthew Lucas (Ph.D., Computer Science), Vice President, TeleStrategies*

This session will explain how TOR anonymizes IP traffic, how TOR hidden services work, who uses TOR hidden services and the top five TOR investigation approaches. The session will start by illustrating standard standard IP based services and comparing with anonymizing TOR software. Transactions will be considered by both a DPI tool, and looking at server logs. Next, the presenter will illustrate how TOR hidden services work, and present the latest research on TOR HSDIR usage and statistics. Finally, the presenter will look at TOR statistical analysis; identifying TOR traffic via IP lookups and protocol signatures; TOR protocol defeating research such as padding and signaling; malware compromises and inducing identity-related traffic outside the TOR stack.
Thursday, September 15, 2016
10:30-11:30 am
Metadata Correlation Across CGNAT Boundaries
Presented by Napablaze

12:00-1:00 pm
Understanding and Defeating Encryption
Matthew Lucas (Ph.D., Computer Science), Vice President, TeleStrategies

Wednesday, September 14, 2016
1:30-2:30 pm
Bitcoin 101: Introduction to What Technical Investigators Need to Know About Bitcoin Transactions and Blockchain Analysis
Matthew Lucas (Ph.D., Computer Science), Vice President, TeleStrategies
3:00-4:00 pm
Bringing Transparency to Bitcoin Transactions
Jonathan Levin, Co-Founder, Chainalysis
4:15-5:15 pm
Case Studies: Blockchain Analysis in Action
Jonathan Levin, Co-Founder, Chainalysis

Thursday, September 15, 2016
8:30-9:30 am
The Computer Science View of Bitcoins and Dark Markets
Nicholas Weaver, Ph.D. is a researcher at the International Computer Science Institute in Berkeley. His primary research is focused on network security, including worms, botnets, and other internet-scale attacks, network measurement, and network criminality including Bitcoin.
10:30-11:30 am
Investigating Bitcoin Crimes, Scams and Hacking
Panel of Federal Investigators from FinGen, FBI, DHS, IRS and USPS invited

Tuesday, September 13, 2016
9:00 am-5:00 pm
Practitioners Guide to Internet Investigations
Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police

Wednesday, September 14, 2016
9:00-10:00 am
New Cutting-Edge Surveillance Tools and Hacking Team
Presented by Hacking Team
11:15 am-12:15 pm
The New Forensic Investigator Toolbox: from Tactical to Open Source Investigations
Emanuele Marcozzi, Presales Engineer, AREA

Track 2
OSINT Automation for Threat Detection, Deep and Dark Web Monitoring

Tuesday, September 13, 2016
9:00-5:00 pm
A Real World Look at Investigations in the Dark Web
Todd G. Shipley CFE, CFCE, President and CEO of Vere Software, Co-Author of Investigating Internet Crimes: An Introduction to Solving Crimes in Cyberspace and retired Reno, NV, Police Officer

Wednesday, September 14, 2016
9:00-10:00 am
Automated, Actionable, Affordable Dark Web Data Intelligence Using Matchlight
Tyler Carbone, Chief Product Officer, Terbium Labs
11:15 am-12:15 pm SESSION A
Cyber Security: The Role of Government
Gordon Friend, Chief Engineer, BAE Systems Applied Intelligence
1:30-2:30 pm
OSINT Automation for Real Time Threat Detection
Justin Cleveland, Director of Federal Sales, Recorded Future
3:00-4:00 pm
Diffieo Deep Web Discovery for Cyber Threat Analysis
John R. Frank, CEO and Co-Founder, Diffieo
4:15-5:15 pm
Advanced Web Crawling and Scraping Technologies with a Dose of Artificial Intelligence and Machine Learning
Amanda Towler, pmP and Mark Hasse, Senior Software Engineer, Hyperion Gray

Track 3
ISS for Investigating Criminal Bitcoin Transactions

Wednesday, September 14, 2016

Track 4
LEA, Defense and Intelligence Analyst Training and Product Demonstrations
Track sessions are for LEA and Other Government Attendees Only

Tuesday, September 13, 2016
3:00-4:00 pm
Applying DPI for Social Network and other OTT Application Monitoring
Curt Schwaderer, VP of Engineering, Yaana Technologies
4:15-5:15 pm
Post Trojan Infiltration: The New Digital Undercover Agent
Marco Braccioli, Senior Vice President and Emanuele Marcozzi, Presales Engineer, AREA
Thursday, September 15, 2016

8:30-9:30 am
Vehicle Telematics and Data Sets—Amazing New Horizons and Opportunities for the Investigator
Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police

10:30-11:30 am SESSION A
Digital Forensics and Vehicle Systems
Ben LeMere, CEO and Co-Founder, Berla Corporation

10:30-11:30 am SESSION B
Forensic Data Fusion Centre: IPDR, CDR, Nat-Pat Disambiguation and Every External Source In a Single Frame
Marco Braccioli, Senior Vice President and Emanuele Marcozzi, Presales Engineer, AREA

Tuesday, September 13, 2016

9:00-5:00 pm
Online Social Media and Internet Investigations
Charles Cohen, Cohen Training and Consulting, LLC

Wednesday, September 14, 2016

9:00-10:00 am
When Artificial Intelligence Meets Security Intelligence: Introducing the 1st Deep Learning Solution In the Security Domain
Presented by Fifth Dimension

11:15-12:15 pm
Finding Intelligence in Data with Network Visualization
Presented by Cambridge Intelligence

3:00-4:00 pm SESSION A
Illuminating the Threat by Understanding the Narrative
Presented by Exovera

3:00-3:30 pm SESSION B
The Future of Crime Analysis: Empowering Law Enforcement Agencies with Artificial Intelligence
Presented by Fifth Dimension

3:30-4:00 pm SESSION B
“Minority Report” Comes to Life: The Science of Crime Prediction
Presented by Fifth Dimension

Thursday, September 15, 2016

10:30-11:00 am
Identify ISIS Recruiters Hidden in the Data with Artificial Intelligence
Presented by Fifth Dimension

11:00-11:30 am
Predictive Intelligence in Action: Reveal Terror Threats Before They Become a Reality
Presented by Fifth Dimension

REGISTRATION INFORMATION

Save $300 by registering before August 1, 2016

Telecommunications Service Provider or Enterprise Registration*
ISS World Conference Tracks 1, 2, and 3,
Pre-Conference Seminars and Exhibits ..........................$995
Registration after August 1, 2016 ..............................$1,295

Law Enforcement/DHS/IC/DoD Registration*
ISS World Conference Tracks, Training Tracks 1 through 5,
Pre-Conference Seminars plus Exhibits ..........................$995
Registration after August 1, 2016 ..............................$1,295

Vendor Registration*
ISS World Conference Tracks 1, 2, and 3,
Pre-Conference Seminars and Exhibits ..........................$995
Registration after August 1, 2016 ..............................$1,295

*Note: To Attend the LEA/DHS/IC/DoD Training Tracks 4 and 5 you must be a sworn law enforcement officer or military/intelligence/government employee. Also you must register by September 2, 2016 in order to verify eligibility. Government photo ID required for Tracks 4 and 5 classroom access.

Free Colleague Registration: Register as paid and you can invite a colleague to join you at ISS World Americas with a full, free conference pass. If you have not identified your guest at this time, just enter “guest of” followed by your name and complete with your contact information. You can register your guest at no charge at a later time.

Conference and Exhibitions
The conference and exhibits will be held at the JW Marriott North Bethesda Hotel, Bethesda, MD in suburban Washington, DC. The DC Metro has a stop adjacent to the hotel. Phone: 1-301-822-9200

International Attendees: If you need Visa assistance to attend ISS World, please contact Tatiana Lucas at talucas@telestrategies.com

Conference by Invitation Only: To attend ISS World you must be law enforcement, other government employee, private enterprise security/investigative personnel, telecom operator or an ISS vendor with LI, electronic surveillance, social media monitoring or analytics products. If you have questions e-mail Tatiana Lucas, ISS World Director at talucas@telestrategies.com

REGISTRATION
Phone: 1-703-734-7050
Fax: 1-703-734-9371
Online: www.telestrategies.com
AREA, is the Italian leading technology Industry and provider of Unconventional Communication and IP Info-Intelligence solutions. AREA provides an “end to end” Dual Use Info-Intelligence CC for HLS/HLD scenarios; satisfying Government Agencies’ need to securely and effectively gather precious information to contrast menaces to Citizen’s security and prevent digital attacks.

Fifth Dimension is a leading company group in the domain of Artificial Intelligence and Big Data. Our intelligence platform fuses massive amounts of data from all types of sources, structured and unstructured, and applies deep-learning artificial intelligence, to reveal the hidden value within the data and enable automated predictive intelligence.

For 10 years Hacking Team has been helping law enforcement stop crime and terrorism. In an age of universal encryption, our technology gives government agencies the ability to see communications of suspects in the clear. The latest version, “Galileo” enables examination of the contents of endpoint devices and offers the widest selection of infection vectors available, all without protection systems being able to detect the investigation in progress. Find out more at www.hackingteam.com.

Yaana Technologies is a leading global provider of intelligent Compliance Solutions with accurate data retention, sophisticated security, and unique analytical capabilities. Our solutions offer our customers a cost-effective path to address the complexities related to meeting compliance needs in the rapidly evolving information-communications and cloud markets worldwide.

Exhibit Hours:
Wednesday, September 14, 2016: 10:00 -5:00 pm
Thursday, September 15, 2016: 9:30- 12:30 pm