ISS World Europe is the world’s largest gathering of Regional Law Enforcement, Public Safety, Government and Private Sector Intelligence Communities in the fight against drug trafficking, cyber money laundering, human trafficking, terrorism and other criminal activities conducted over today’s telecommunications network, the Internet and Social Media.

ISS WORLD EUROPE 2021 PROGRAM AGENDA
Training Seminars Led by Law Enforcement Officers and Ph.D., Computer Scientists
30 classroom training hours, presented by Law Enforcement Officers and Ph.D. Scientists
- Charles Cohen, Cohen Training and Consulting, LLC, also holds the position of Captain, Office of Intelligence & Investigative Technologies, Indiana State Police, USA (6 classroom hours)
- Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police (7 classroom hours)
- Michael Loughnane, CAMS, CFE, Loughnane Associates, LLC and retired 27-year US Federal Law Enforcement Officer (5 classroom hours)
- Jerry Lucas (Ph.D., Physics), President, TeleStrategies (4 classroom hours)
- Matthew Lucas (Ph.D., Computer Science), VP, TeleStrategies (3 classroom hours)
- Vladimir Vesely (Ph.D., Computer Science) Researcher, Brno University of Technology (2 classroom hours)
- Andrew Lewman, VP, DarkOWL and Former Executive Director, The TOR Project (3 classroom hours)

Tuesday, 7 December 2021

SEMINAR #1
08:30-15:05
Online Social Media and Internet Investigations
- Presented by: Charles Cohen, Cohen Training and Consulting, LLC also holds the position of Captain, Office of Intelligence & Investigative Technologies, Indiana State Police, USA

08:30-09:20
The role of Online Social Media OSINT in Predicting and Interdicting Spree Killings: Case Studies and Analysis

09:25-10:15
OSINT and Criminal Investigations

10:35-11:25
Metadata Exploitation in Criminal Investigations

11:30-12:20
EXIF Tags and Geolocation of Devices for Investigations and Operational Security

13:20-14:10
Case Studies in Metadata Vulnerability Exploitation and Facial Recognition

14:15-15:05
What Investigators Need to Know about Emerging Technologies Used to Hide on the Internet

SEMINAR #2
08:30-15:05
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, building their OSINT toolbox, and 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.

08:30-09:20
The Internet, and how suspects leave a Digital Footprint. How the system works for us, as investigators

09:25-10:15
Recognizing Traffic Data and digital profiling via social networks and devices - digital shadows

10:35-11:25
WIFI, geolocation, and Mobile Data traces and tracking

11:30-12:20
Awareness of Emerging Technologies, Masking Tech and Tools, TOR and proxies

13:20-14:10
Advanced Techniques in Tracing Suspects, and lateral problem solving

14:15-15:05
Open Source Tools, resources and techniques - A walk through my free law enforcement open source tools site

SEMINAR #3
08:30-09:20
Understanding Mobile 2G/3G/4G Infrastructure and Law Intercept for Technical Investigators
- Presented by: Dr. Jerry Lucas, President, TeleStrategies

SEMINAR #4
09:25-10:15
Understanding 5G New Radio and Encryption Infrastructure for Technical Investigators
- Presented by: Dr. Jerry Lucas, President, TeleStrategies

SEMINAR #5
10:35-11:25
Understanding 5G Network Core (NFV, SDN, EDGE Computing and Network Slicing) for Law Enforcement Investigators
- Presented by: Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies

To Review Complete Agenda or To Register, Go To WWW.ISSWORLDTRAINING.COM
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Name</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:30-09:15</td>
<td>Criminal Essentials: The Needs of a Criminal Network</td>
<td>Jerry Lucas, (Ph.D, Physics) President, TeleStrategies</td>
</tr>
<tr>
<td>09:15-10:00</td>
<td>Financial Crime Schemes in Money Laundering</td>
<td>Jerry Lucas, (Ph.D, Computer Science) VP, TeleStrategies</td>
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<tr>
<td>11:00-11:45</td>
<td>The Essentials of Trade Based Money Laundering</td>
<td>Jerry Lucas, (Ph.D, Computer Science) VP, TeleStrategies</td>
</tr>
<tr>
<td>12:45-14:00</td>
<td>Understanding “Defeating Encryption” with Quantum Computing for Non-Engineers</td>
<td>Jerry Lucas, (Ph.D, Physics) President, TeleStrategies</td>
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<tr>
<td>16:30-17:20</td>
<td>SSL/TLS Interception Workshop</td>
<td>Vladimir Vesely (Ph.D., Computer Science) and Jan Pluskal, Researchers, Brno University of Technology</td>
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</table>

**Wednesday, 8 December 2021**

**WELCOMING REMARKS**

8:15-8:30  
Tatiana Lucas, ISS World Program Director, TeleStrategies

8:30-9:00  
Top Ten Internet Challenges Facing Law Enforcement and the Government Intelligence Community and Who at ISS World Europe has Solutions  
- Dr. Jerry Lucas, President, TeleStrategies

**Lawful Interception and Criminal Investigation Training**

This track is for Telecom Operators and Law Enforcement/Intelligence/Defense Analysts who are responsible for specifying or developing lawful intercept network infrastructure.

**Tuesday, 7 December 2021**

14:15-15:05  
**SESSION C**

The CY4GATE Integrated Cyber-Intelligence solution  
- Presented by CY4GATE

15:25-16:15  
The challenges 5G brings to cellular Security & Surveillance  
- Nick Johnson, CTO & Head of PLM, IP Access

16:30-17:20  
SSL/TLS Interception Workshop  
- Vladimir Vesely (Ph.D., Computer Science) Researcher, Brno University of Technology

**Wednesday, 8 December 2021**

**SESSION A**

09:00-10:00  
Lawful Interception and Communication Data, Current & Future Challenges: Mobile, Cyber Security, Virtualization and AI - An industry view  
- Alex Leadbeater, 3GPP SA3-LI and ETSI TC Cyber Chairman and Head of Global Obligations Future and Standards; BT Security

09:00-09:30  
Acquiring targets and new leads in a digital sphere: Breaking Down Jaish e Mohamed’s digital trace  
- Presented by Digital Clues

09:30-10:00  
Things to Consider When Choosing a Modern Lawful Interception Monitoring Center  
- Presented by Cognyte

12:45-13:30  
Understanding “Defeating Encryption” with Quantum Computing for Non-Engineers  
- Presented by Jerry Lucas, (Ph.D, Physics) President, TeleStrategies

15:40-16:25  
Mobile Edge Computing and LI  
- Presented by Utimaco TS GmbH

**Thursday, 9 December 2021**

**SESSION A**

09:15-10:00  
SDL Neural Machine Translation applications for Cyber Threat Intelligence  
- Presented by SDL

12:45-13:30  
Understanding “Defeating Encryption” with Quantum Computing for Non-Engineers  
- Presented by Jerry Lucas, (Ph.D, Physics) President, TeleStrategies

**SESSION B**

14:15-15:05  
Lawful Interception and Criminal Investigation Training  
- Presented by CY4GATE

15:25-16:15  
The challenges 5G brings to cellular Security & Surveillance  
- Nick Johnson, CTO & Head of PLM, IP Access

16:30-17:20  
SSL/TLS Interception Workshop  
- Vladimir Vesely (Ph.D., Computer Science) Researcher, Brno University of Technology

**SESSION C**

09:25-10:15  
TOVEK - creating missing knowledge from disparate information sources  
- Presented by Tovek

**SESSION D**

09:50-10:40  
Identity and Access Management: Understanding the New Reality  
- Presented by DarkFTP, CTO and Co-founder, Cognite

10:45-11:35  
SSL/TLS Interception Workshop  
- Vladimir Vesely (Ph.D., Computer Science) Researcher, Brno University of Technology
Thursday, 9 December 2021
08:30-09:20
Massive Social Media data collection and analysis for Counter-Terrorism Intelligence Activities  
Presented by IPS

09:25-10:15
WhatsApp, Telegram, Facebook...how IPS helps you to locate most wanted targets with LI  
Presented by IPS

10:35-11:25
Everyone leaves a trace: How the digital sphere has become the ideal place for target acquisition  
Presented by Digital Clues

11:30-12:20
Using AI-based Risk Scoring for Multi-source Target Acquisition and Prioritization  
Presented by Simulation Software & Technology, S2T

13:20-14:10
Combating Threats with Advanced AI-Driven Technologies – Leveraging open source data to anticipate and prevent future attacks  
Presented by Voyager Labs

13:20-14:10
SCOPE Product – Bringing Data to Life  
Presented by Innosystec

14:15-14:40
Combing Threats with Advanced AI-Driven Technologies – Leveraging open source data to anticipate and prevent future attacks  
Presented by Voyager Labs

14:15-14:40
Automatic Exploitation of Social Network, Deep and Dark Web to complement traditional Lawful Interception infrastructure for Target Profiling.  
Presented by IPS

14:40-15:05
Machine Learning in a Command and Control Centre for covert field operations and situation awareness  
Presented by IPS

15:25-16:15
How social media platforms are limiting the API approach and advanced DB queries  
Presented by Cognity

15:25-16:15
Multimedia Monitoring and Forensics Laboratory  
Presented by Evers

15:30-17:20
The hype of AI usage in intelligence is facing multiple challenges  
Presented by Cognity

16:30-17:20
SCOPE Product – Prevent and Predict  
Presented by Innosystec

Wednesday, 8 December 2021
09:00-10:00
Tactical Web Intelligence (WEBINT) & Social Engineering: Gathering Actionable Intelligence via a powerful WEBINT platform  
Presented by Cobwebs Technologies

13:00-13:45
Global Terror Butterfly Effect: Social Network and Real Time Threat Analysis of Lone Wolves Terrorism  
Presented by Cobwebs

13:00-13:45
Propaganda 4.0: is fake news really so new? A Journey through the various ways in which media is used  
Presented by Gamma Group

13:00-13:45
Dissecting the Digital Sphere  
Presented by Ultra

13:50-14:35
Using ML, device fingerprinting (not just IP addresses) and tactical fiber systems to detect threats and anomalies in mass IP data. A discussion with use cases on sophisticated rule based systems  
Presented by Vehere

15:40-16:25
Unlocking the full potential of speech technologies to transform OSINT and COMINT  
Presented by Vocapia

15:40-16:25
Data Enrichment Techniques and Sources for Internet Investigations  
Presented by Packet Forensics

15:40-16:25
Transforming Investigations & Risk Assessment with Artificial Intelligence  
Presented by Voyager Labs

16:30-17:15
Gens.AI, the Cyber Humint solution that can automate the management of virtual identities  
Presented by CY4GATE

Thursday, 9 December 2021
08:30-09:15
Transforming Investigations & Risk Assessment with Artificial Intelligence  
Presented by Voyager Labs

09:15-10:00
SCOPE Product – A Real Life Scenario (demo)  
Presented by Innosystec
**Track 4**

**Threat Intelligence Gathering and Cyber Security Product Training**
This track is only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees

**Tuesday, 7 December 2021**

10:35-11:25  
The Matrix Concept – Combining forward-thinking intelligence tools and proven workflows to assemble a coherent intelligence picture (LIVE DEMO)  
- Presented by Rayzone Group

14:15-15:05 **SESSION A**  
Cyber Intelligence in Our Increasingly Privacy & Security Conscious Environment  
- Presented by Wintego

14:15-15:05 **SESSION B**  
Disrupt cyber threats by unmasking your adversaries  
- Presented by 4IQ

15:25-16:00 **SESSION A**  
Cyber Intelligence in Our Increasingly Privacy & Security Conscious Environment  
- Presented by Wintego

15:25-16:00 **SESSION B**  
Live Demo. Real Investigation, from OSINT and eXtraction to active cyber security tools (Cyberwarefare)  
- Antonio Ramos, COO, MOLLITIAM CYBERINTELLIGENCE

16:30-17:20  
Live Demo. Real Cyberoperation, invisible control of Android smartphones, Windows/macOS systems and Cloud (hijacking)  
- Antonio Ramos, COO, MOLLITIAM CYBERINTELLIGENCE

**Wednesday, 8 December 2021**

13:00-13:45  
Offline darknet investigation with the Web-l-Qube  
- Presented by mh-Service GmbH

13:50-14:35  
Building a Secured Environment Through Threat Intelligence  
- Presented by MAGEN

16:30-17:15  
Profile, target and investigate the Darknet. Reinventing traditional HUMINT in the Digital Era  
- Presented by AREA

**Thursday, 9 December 2021**

08:30-09:15  
Worldwide Virtual SIGINT – monitoring digital footprint in order to anticipate and prevent evolving threats (LIVE DEMO)  
- Presented by Rayzone Group

15:40-16:25  
Router based interception – redefining remote monitoring by infiltrating targeted LAN networks (LIVE DEMO)  
- Presented by Rayzone Group

**Track 5**

**Investigating DarkWeb, Bitcoin, Altcoin and Blockchain Transaction**
This track is for Law enforcement and private enterprise investigators who have to monitor and investigate the DarkNet along with Bitcoin transactions associated with criminal activities. Note: Some sessions are only open to LEA and Government. These sessions are marked accordingly.

**Tuesday, 7 December 2021**

11:30-12:20  
Understanding Cryptography used in Third Party Encryption Services, Bitcoin, Blockchain, TOR, DarkNets, 2G/3G/4G/5G and WiFi for Technical Investigators  
- Dr. Jerry Lucas, President, TeleStrategies

13:20-14:10  
Cybercurrency 101: What Technical Investigators Need to Know about Bitcoin and Altcoin Transactions, Dark Web Commerce and Blockchain Analysis  
- Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies

15:25-16:15  
Offline darknet web-crawling with the Web-l-Qube  
(This SESSION IS ONLY OPEN TO LEA AND GOVERNMENT ATTENDEES)  
- Presented by mh-Service GmbH

**Wednesday, 8 December 2021**

13:00-13:45  
Offline darknet investigation with the Web-l-Qube  
- Presented by mh Service GmbH

13:50-14:35  
Building a Secured Environment Through Threat Intelligence  
- Presented by MAGEN

16:30-17:15  
Profile, target and investigate the Darknet. Reinventing traditional HUMINT in the Digital Era  
(This SESSION IS ONLY OPEN TO LEA AND GOVERNMENT ATTENDEES)  
- Presented by AREA

**Thursday, 9 December 2021**

08:30-09:15  
Indexing the dark net – how do you catalog and search something that is not meant to be easily scrubbed? What's possible?  
- Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

09:15-10:00  
Case studies / examples in dark net investigations – de-anonymizing examples / approaches / best practices / lessons learned.  
- Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

11:00-11:45  
Future directions - what's next in dark net infrastructure, dark markets and investigation implications  
- Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

**Track 6**

**Mobile Signal Intercept Product Training and Demonstrations**
This track is for Law Enforcement, Interior Security and the Government Intelligence Community who must work with cellular and mobile satellite operators regarding mobile location, electronic surveillance and RF intercept. This track is only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

**Tuesday, 7 December 2021**

8:30-9:20  
Understanding Mobile 2G, 3G, 4G and 5G Infrastructure, Intercept and Cryptography  
- Dr. Jerry Lucas, President, TeleStrategies

10:35-11:25  
VSAT Networks: Tactical and Strategic Threat Detection and Geolocation  
- Presented by Kratos

11:30-12:20  
Border Security and Force Protection Analytics using Passive RF  
- Presented by Packet Forensics

14:15-15:00  
Real-time identification and geo-location in mobile networks: how to identify and get, in real-time, the accurate position of a handset in a mobile network  
- Presented by Evistel

15:25-16:15  
Accurate 3D Location for National Security  
- Anjul Bahuguna, Polaris Wireless

16:20-17:20  
Distributed IMSI Catching & Private networks  
- Nick Johnson, CTO & Head of PLM, IP Access

**Wednesday, 8 December 2021**

09:00-10:00  
Empowering field intelligence teams – how Intellexa combines native 3G/4G interception and long range WiFi interception to make field cyber operations more successful than ever  
- Presented by WiSpear

13:50-14:35  
Strategic intelligence to follow trends and reveal hidden targets  
- Presented by Advanced Systems

16:30-17:15  
Providence Training Academy  
- Presented by Providence

**Thursday, 9 December 2021**

08:30-09:00  
Overview of Mobile Radio Analysis  
- Presented by Rohde Schwarz

09:15-10:00  
SCPC/VSAT Interception in CIC/CuC scenarios  
- Presented by Rohde Schwarz
**Electronic Surveillance Training and Product Demonstrations**

This track is for law enforcement investigators and the government intelligence community who are responsible for deploying video, audio and GPS surveillance products and only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

**Tuesday, 7 December 2021**

13:20-14:10
A new intelligent approach for covert video recording and streaming
- Presented by Pro4Tech

13:20-14:10
A new paradigm for covert audio surveillance in large areas
- Presented by Commesh

15:25-16:15
Waveguard’s border monitoring and control solutions
- Presented by WaveGuard

16:30-17:20
Simultaneous use of many Squarehead Audio recorders in complex and challenging acoustic environments.
- Stig Nyvold, CEO, Squarehead Technology

**Wednesday, 8 December 2021**

13:00-13:45
Delivering Urban Safety through Counter-Drone Defence
- Presented by D-FendSolutions

13:50-14:35
Breaking the borders of tactical cyber-intelligence
- Presented by Jenovice

15:40-16:25
Mobile Location Intelligence: how to leverage active targeting, Big Data and tactical geolocation capabilities
- Presented by Creativity Software

16:30-17:20
Tactical Multi-Interfaces Communication
- Hans-Georg Schilling, Intecs

**5G Lawful Interception Product**

This track is open to all conference attendees.

**Tuesday, 7 December 2021**

9:25-10:15
Understanding 5G New Radio and Encryption Infrastructure for Technical Investigators
- Dr. Jerry Lucas, President, TeleStrategies

10:35-11:25
Understanding 5G Network Core (NFV, SDN, EDGE Computing and Network Slicing) for Law Enforcement Investigators
- Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies

14:15-15:05
How new technologies, like 5G, change the lawful interception landscape
- Presented by Group 2000

15:25-16:15
The challenges 5G brings to cellular Security & Surveillance
- Nick Johnson, CTO & Head of PLM, IP Access

**Wednesday, 8 December 2021**

09:00-10:00 Session A
Lawful Interception and Communication Data, Current & Future Challenges: Mobile, Cyber Security, Virtualization and AI - An industry view
- Alex Leadbeater, 3GPP SA3-LI and ETSI TC Cyber Chairman and Head of Global Obligations Future and Standards, BT Security

13:00-13:45
Lawful Interception in 5G Mobile Networks
- Presented by Utimaco

13:50-14:35
Challenges to consider when preparing for the 5G Lawful Interception Era
- Presented by Cognyte

**Law enforcement/DHS/IC/DoD Registration**

ISS World Conference Training Tracks 1-9, Pre-Conference Seminars plus Exhibits..........................$995

Registration after 22 October 2021 .................................................$1,695

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Registration after 22 October 2021 .................................................$1,695

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ISS World Conference (Tracks 1, 5, 8, & 9), Pre-Conference Seminars and Exhibits ..........................$995

Registration after 22 October 2021 .................................................$1,695

*Note: To Attend the LEA/DHS/IC/DoD Training Tracks 2, 3, 4, 6 & 7 you must be a sworn law enforcement officer or military/intelligence/government employee. Also you must register by 3 December 2021 in order to verify eligibility. Government photo ID required for classroom access.

**Financial Crime Investigation and Prevention Training**

This track is open to all conference attendees.

**Thursday, 9 December 2021**

08:30-09:15
Criminal Essentials: The Needs of a Criminal Network
- Michael Loughnane, CAMS, CFE, Loughnane Associates, LLC

09:15-10:00
Financial Crime Schemes in Money Laundering
- Michael Loughnane, CAMS, CFE, Loughnane Associates, LLC

11:00-11:45
The Essentials of Trade Based Money Laundering
- Michael Loughnane, CAMS, CFE, Loughnane Associates, LLC

12:45-13:30
How Does Money Actually Move?
- Michael Loughnane, CAMS, CFE, Loughnane Associates, LLC

13:30-14:00
Follow the Money Beyond the Banks
- Michael Loughnane, CAMS, CFE, Loughnane Associates, LLC

**Registration Information**

Save $700 by registering before 22 October 2021

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Registration after 22 October 2021 .................................................$1,695

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**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 a government employee, LEA, telecom operator or vendor with LI, surveillance or network products or services. If you have questions e-mail Tatiana Lucas at talucas@telestrategies.com.