Intelligence Support Systems for Electronic Surveillance, Social Media/DarkNet Monitoring and Cyber Crime Investigations

Where Law Enforcement, Government Intelligence Agencies and Financial Crime Investigators turn for Technical Training and Product Selection

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ISS World Europe is the world’s largest gathering of Regional Law Enforcement, Intelligence and Homeland Security Analysts, Telecoms as well as Financial Crime Investigators responsible for Cyber Crime Investigation, Electronic Surveillance and Intelligence Gathering.

ISS World Programs present the methodologies and tools for 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, 1 June 2021**

**SEMINAR #1**

08:30-10:20
Online Social Media and Internet Investigations

- **Presented by**: Charles Cohen, Cohen Training and Consulting, LLC and retired 27-year US Federal Law Enforcement Officer (6 classroom hours)

10:35-11:25
Understanding 5G New Radio and Encryption

- **Presented by**: Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police (8 classroom hours)

11:30-12:20
OSINT and Criminal Investigations

- **Presented by**: Matthew Lucas, TeleStrategies (4 classroom hours)

13:20-14:10
Tech and Tools, TOR and proxies
- **Presented by**: Charles Cohen, Cohen Training and Consulting, LLC, also holds the position of Captain, Office of Intelligence & Investigative Technologies, Indiana State Police, USA (4 classroom hours)

14:15-15:05
Lateral problem solving via social networks and devices - digital shadows

- **Presented by**: Dr. Jerry Lucas, President, TeleStrategies (5 classroom hours)

**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 (4 classroom hours)

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 (6 classroom hours)

09:25-10:15
Understanding 5G New Radio and Encryption Infrastructure for Technical Investigators

- **Presented by**: Matthew Lucas, TeleStrategies (5 classroom hours)

**SEMINAR #4**

08:30-09:20
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- **Presented by**: Dr. Jerry Lucas, President, TeleStrategies (6 classroom hours)

09:25-10:15
Understanding 5G New Radio and Encryption Infrastructure for Technical Investigators

- **Presented by**: Matthew Lucas (Ph.D., Computer Science), VP, TeleStrategies (7 classroom hours)

**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 (5 classroom hours)

To Review Complete Agenda or To Register, Go To WWW.ISSWORLDTRAINING.COM
SEMINAR #6
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
- Presented by: Dr. Jerry Lucas, President, TeleStrategies

SEMINAR #7
13:20-14:10
Cybercurrency 101: What Technical Investigators Need to Know about Bitcoin and Altcoin Transactions, Dark Web Commerce and Blockchain Analysis
- Presented by: Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies

SEMINAR #8
14:15-15:05
Investigation Techniques for Unmasking TOR Hidden Services and Other Dark Web Operations
- Presented by: Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies

SEMINAR #9
16:30-17:15
SSL/TLS Interception Workshop
- Presented by: Vladimir Vesely (Ph.D, Computer Science) and Jan Pluskal, Researchers, Brno University of Technology

Wednesday, 2 June 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, 1 June 2021
14:15-15:05
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

Tuesday, 1 June 2021
08:30-09:15
Criminal Essentials: The Needs of a Criminal Network
09:15-10:00
Financial Crime Schemes in Money Laundering
11:00-11:45
The Essentials of Trade Based Money Laundering
12:45-13:30
How Does Money Actually Move
13:30-14:00
Follow the Money Beyond the Bank

SEMINAR #10
08:30-11:45
SEMINAR #11
08:30-14:00
SEMINAR #12
12:45-14:00
SEMINAR #13
12:45-14:00

Thursday, 3 June 2021
SEMINAR #14
08:30-09:15
Special Half Day DarkNet Seminar
- by Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project
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?
09:15-10:00
Case studies / examples in dark net investigations - de-anonymizing examples / approaches / best practices / lessons learned.
11:00-11:45
Future directions - what’s next in dark net infrastructure, dark markets and investigation implications
This one-hour session will explore the protection of weak points and future proofing banks against cyber-attacks.

SEMINAR #15
09:30-10:15
More with Less
Efficient Cryptanalysis Infrastructure - Doing More with Less
- Presented by: SciEngines
10:15-11:00
Lawful Interception and Communication Data, Current & Future Challenges: Mobile, Cyber Security, Virtualization and AI - An industry view
- Alex Leadbetter, 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: Verint
10:00-10:30
Lawful interception in 5G Mobile Networks
- Presented by: Utimaco TS GmbH
15:40-16:25
Mobile Edge Computing and LI
- Presented by: Utimaco TS GmbH

Thursday, 3 June 2021
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

Lawful Interception and Criminal Investigation Training
This track is open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

Tuesday, 1 June 2021
08:30-09:20
The Wide Area Network vs. Moore’s Law: Generating IP Intelligence at 100G and beyond
- Gene Litt, CTO, NetQuest
08:30-09:20
Efficient Cryptanalysis Infrastructure - Doing More with Less
- Presented by: SciEngines
09:25-10:15
WHO was using WHAT application WHERE and WHEN?
- Presented by: VASTech
09:25-10:15
TOVEK - creating missing knowledge from disparate information sources
- Presented by: Tovek
### Track 3

<table>
<thead>
<tr>
<th>Session Time</th>
<th>SESSION A</th>
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<tbody>
<tr>
<td>08:30-09:20</td>
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<td>Presented by IPS</td>
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<td>11:30-12:20</td>
<td>Using AI-based Risk Scoring for Multi-source Target Acquisition and Prioritization</td>
<td>Presented by Simulation Software &amp; Technology, S2T</td>
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</tr>
<tr>
<td>13:20-14:10</td>
<td>Combating Threats with Advanced AI-Driven Technologies – Leveraging open source data to anticipate and prevent future attacks</td>
<td>Presented by Voyager Labs</td>
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<tr>
<td>14:15-14:40</td>
<td>Automatic Exploitation of Social Network, Deep and Dark Web to complement traditional Lawful Interception infrastructure for Target Profiling.</td>
<td>Presented by IPS</td>
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<td>Presented by IPS</td>
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</tr>
</tbody>
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### Social Network Monitoring, Artificial Intelligence and Analytics Product Training

Sessions in this track are only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees, unless marked otherwise.

**Tuesday, 1 June 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 IP5 helps you to locate most wanted targets with LI
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- **11:30-12:20** Using AI-based Risk Scoring for Multi-source Target Acquisition and Prioritization
  - Presented by Simulation Software & Technology, S2T
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  - 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
Threat Intelligence Gathering and Cyber Security Product Training

This track is only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees

**Tuesday, 1 June 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 exfiltration to active cyber security tools (Cyberwarfare)
- Antonio Ramos, COO, MOLLITIAM CYBERINTELLIGENCE
- Presented by MOLLITIAM

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

**Wednesday, 2 June 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, 3 June 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, 1 June 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
- Presented by mh-Service GmbH

**Wednesday, 2 June 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
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**Thursday, 3 June 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 darknet investigations - de-anonymizing examples / approaches / best practices / lessons learned.
- Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

16:00-17:15
Future directions - what's next in darknet infrastructure, dark markets and investigation implications
- Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

**Track 6**

Mobile Signal Interception 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, 1 June 2021**

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

9:15-10:00
Offline Darknet web-crawling with the Web-l-Qube
- Presented by mh-Service GmbH

10:35-11:25
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
- Presented by Polaris Wireless

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

**Wednesday, 2 June 2021**

09:00-10:00
Empowering field intelligence teams - how Intelixea 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, 3 June 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, 1 June 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, 2 June 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 Training
This track is open to all conference attendees.

Tuesday, 1 June 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, 2 June 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 Verint

Financial Crime Investigation and Prevention Training
This track is open to all conference attendees.

Thursday, 3 June 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

11:45-13:30
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

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