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

3-5 December 2019 • DoubleTree Hotel • Kuala Lumpur, MY

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89 LEA/Interior Security/Intel Training Sessions and Courses to Choose From
ISS World Asia 2019 Agenda

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

27 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 (3 classroom hours)
- Vladimir Vesely (Ph.D., Computer Science) Researcher, Brno University of Technology (3 classroom hours)

Tuesday, 3 December 2019

Seminar #1

9:00-17:00
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

9:00-10:00
The role of Online Social Media OSINT in Predicting and Interdicting Spree Killings: Case Studies and Analysis

10:15-11:15
OSINT and Criminal Investigations

11:30-12:30
Metadata Exploitation in Criminal Investigations

Seminar #2

9:00-17:00
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.

09:00-10:00
The Internet, and how suspects leave a Digital Footprint. How the system works for us, as investigators

10:15-11:15
Recognizing Traffic Data and digital profiling via social networks and devices - digital shadows

11:30-12:30
WiFi, geolocation, and Mobile Data traces and tracking
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13:30-14:30
Awareness of Emerging Technologies, Masking Tech and Tools, TOR and proxies

14:45-15:45
Advanced Techniques in Tracing Suspects, and lateral problem solving

16:00-17:00
Open Source Tools, resources and techniques - A walk through my free law enforcement open source tools site

Seminar #3
9:00-15:45
Concerns and Considerations in Financial Crime Investigations
• Presented by: Michael Loughnane, CFE, Loughnane Associates, LLC. Mike is a former US Federal Law Enforcement Officer who specialized in complex fraud and cybercrime investigations and currently provides training to improve detection and investigations of fraud, money laundering and counter terror finance.

9:00-10:00
Criminal Essentials: The Needs of a Criminal Network

10:15-11:15
Financial Crime Schemes in Money Laundering

11:30-12:30
The Essentials of Trade Based Money Laundering

13:30-14:30
How Does Money Actually Move?

14:45-15:45
Follow the Money Beyond the Banks

Seminar #4
9:00-10:00
Understanding Mobile 2G/3G/4G Infrastructure and Law Intercept for Technical Investigators
• Presented by: Dr. Jerry Lucas, President, TeleStrategies
This session covers what technical investigators need to know about 2G/3G/4G infrastructure, SIM Cards, Authentication, CDR analysis, SS7 and more.

Seminar #5
10:15-11:15
Understanding 5G Infrastructure and Lawful Intercept Challenges for Technical Investigators
• Presented by: Dr. Jerry Lucas, President, TeleStrategies
This session is a technical introduction to 5G; New Radio, Massive MIMO, IoT services, SDN, NFV, Network Slicing and Cloud Service Support and lawful Intercept challenges facing law enforcement and 5G telecom operators.

Seminar #6
11:30-12:30
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
This session covers the basics of cryptography: Private-Public Keys (RSA, DH etc.), Symmetric-Keys, Hashing, Certificates and where they are deployed in Third Party Encrypted Services (Telegram, etc.), Cryptocurrencies and DarkNets.

Seminar #7
16:00-17:00
SSL/TLS Interception Workshop
• Presented by: Vladimir Vesely (Ph.D., Computer Science) and Jan Pluskal, Researchers, Brno University of Technology
The presentation introduces methods for intercepting TLS/SSL connections. The focus is on man-in-middle attack employing TLS/SSL proxy and other ways how to obtain session’s private keys. Speakers will outline necessary theory (including the history of SSL/TLS framework design), well-known attacks (including OpenSSL Heartbleed, Logjam or BEAST) and industry standard tools (such as Wireshark, NetFox Detective, Fiddler Proxy and SSL-Split). The session will also include a live demonstration of MitM attack on HTTPS connections enhanced with form-logging JavaScript injection. Participants will receive free of charge access to test-bed, which consists of real devices (and their traffic) including the prototype of our hardware probe decrypting SSL/TLS on-the-fly.

Thursday, 5 December 2019

Seminar #8
8:30-13:00
Special Half Day DarkNet Seminar
• by Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

08:30-09:15
Breaking Darknets Through Theory and Fundamentals

09:15-10:00
Cases from the Darknet: Technical Walkthroughs

11:30-12:15
Future Directions of Darknets, Investigations and Infrastructure

Seminar #9
12:00-13:00
Understanding “Defeating Encryption” with Quantum Computing for Non-Engineers
• Presented by: Jerry Lucas, (Ph.D, Physics) President, TeleStrategies
This one hour, session is for cyber security executives and specialists who have the responsibility of assessing the lead time they have before deploying quantum safe cryptography solutions but don’t have a technical background. If you believe nation state security agencies are developing quantum computing to decrypt your past and future intercepted transmission sessions, this high-level webinar should be a must attend briefing.

And to do this you need to understand how a quantum computing circuit works when designed for the sole purpose of defeating public key encryption.
Wednesday, 4 December 2019

**Welcoming Remarks**
8:15-8:30
Opening Remarks
- Tatiana Lucas, ISS World Program Director, TeleStrategies

8:30-9:00
Top Ten Internet Challenges: Facing Law Enforcement and the Intelligence Community
- Dr. Jerry Lucas, President, TeleStrategies

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**Lawful Interception and Criminal Investigation Training**

**Track 1**

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

**Wednesday, 4 December 2019**

13:00-14:00
Improving Threat Analytics: Using DPI Sensors for High-Resolution Traffic Intelligence at Extreme Throughput even in the Most Demanding Environments
- Sebastien Synold, Product Manager, Qosmos DPI Business Unit, ENEA

14:30-15:30
Intercepting mobile communication for target deep monitoring
- Presented by MEMENTO LABS

**Thursday, 5 December 2019**

12:00-13:00
Understanding “Defeating Encryption” with Quantum Computing for Non-Engineers
- Jerry Lucas, (Ph.D, Physics) President, TeleStrategies

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**Lawful Interception and Intelligence Analyst Product Demonstrations**

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

**Tuesday, 3 December 2019**

13:30-14:30
Data Fusion and Analytics for National Security and Intelligence
- Presented by Yaana

14:45-15:45
Alternative tools for efficient investigations in the age of encryption
- Presented by Rohde&Schwarz

16:00-17:00
Lawful Interception in VoLTE, VoWiFi and other services
- Rupesh Sangoi, Director, Zeel Infotech

16:00-17:00
SSL/TLS Interception Workshop
- Vladimir Vesely (Ph.D, Computer Science) Researcher, Brno University of Technology

**Wednesday, 4 December 2019**

9:00-10:00
Breaking access controls for forensics and active monitoring. Live Demo.
- Presented by MEMENTO LABS

9:00-10:00
Next Generation Monitoring Centre for modern communication challenges
- Presented by ClearTrail

9:00-10:00
Internet Records Intelligence: Collection, Storage, Disclosure & Analysis
- Presented by Yaana

13:00-14:00
WHO was using WHAT application WHERE and WHEN?
- Presented by VASTech

13:00-14:00
Digital Toolbox: the investigator’s best friend
- Presented by AREA

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**Thursday, 5 December 2019**

13:00-14:00
WhatsApp, Telegram, Facebook... how IPS helps you to locate most wanted targets with LI
- Presented by IPS

14:30-15:00
NEO. Targeted Mission-Based Investigation
- Presented by FinFisher

14:30-15:30
Live Demo: Data Retention - powerful analysis on metadata
- Presented by ATIS

15:00-15:30
WiFi Intelligence Gathering - A Key Piece of the Strategic Intelligence Puzzle
- Presented by FinFisher

16:00-17:00
Creating intelligence from disparate digital traces
- Miroslav Necas, TOVEK
12:00–13:00
Towards Fully Automated Infinitely Scalable and Maximally Effective Password Cracking of Encrypted Documents
- Vladimir Vesely (Ph.D., Computer Science) Researcher, Brno University of Technology

**Track 3**

Social Network Monitoring and Cyber Threat Detection Training
This track is only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

**Tuesday, 3 December 2019**

13:30–14:30
Massive Social Media data collection and analysis for Counter-Terrorism Intelligence Activities
- Presented by IPS

14:45–15:45
Using social media monitoring, Natural Language Processing and visualization techniques to detect and analyze extremist and criminal behavior
- Presented by Insikt Intelligence

**Wednesday, 4 December 2019**

9:00–10:00
Cross domain communication: available security controls pros/cons
- Presented by GSN

14:30–15:30
CyberRange: virtual environment for cyberwarfare training
- Presented by GSN

14:30–15:30
Tactical Web Intelligence (WEBINT) & Social Engineering: Gathering Actionable Intelligence via a platform
- Presented by CWA Webint Applications

16:00–17:00
Darknet and Social Media Analysis - offline possibilities and market access
- Presented by mh SERVICE

**Thursday, 5 December 2019**

8:30–9:30
Automatic Exploitation of Social Network, Deep and Dark Web to complement traditional Lawful Interception Infrastructure for Target Profiling
- Presented by IPS

**Track 4**

Investigating DarkWeb, Bitcoin, Altcoin and Blockchain Transaction
This track is open to all attendees

**Wednesday, 4 December 2019**

9:00–10:00
Profile, target and investigate the Darknet
- Presented by AREA

13:00–14:00
Illuminating the Dark - Technologies for Unmasking Darknet Criminals
- Presented by FinFisher

16:00–17:00
Hunting Down Cryptocurrency Users
- Vladimir Vesely (Ph.D., Computer Science) Researcher, Brno University of Technology

**Thursday, 5 December 2019**

8:30–9:30
Breaking Darknets Through Theory and Fundamentals
- Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

10:30–11:30
Cases from the Darknet: Technical Walkthroughs
- Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

12:00–13:00
Future Directions of Darknets, Investigations and Infrastructure
- Andrew Lewman, Vice President, DarkOWL and Former Executive Director, The TOR Project

**Track 5**

Artificial Intelligence and Facial Recognition Investigation Training
This track is only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

**Tuesday, 3 December 2019**

14:45–15:45
Case Studies in Metadata Vulnerability Exploitation and Facial Recognition
- Charles Cohen, Cohen Training and Consulting, LLC, also holds the position of Captain, Office of Intelligence & Investigative Technologies, Indiana State Police, USA

16:00–17:00
Connecting dots using all information, voice, IP data, location, movement, behavior, biometric, Aegis, the one stop solution for you
- Presented by Semptian

**Wednesday, 4 December 2019**

9:00–10:00
Web Intelligence 4.0: Infusing Face Recognition, Image Analytics and Artificial Intelligence into a WEBINT platform
- Presented by CWA Technologies

13:00–14:00
Face Recognition: from safe to smart city
- Presented by NTECH LAB

14:40–15:30
Machine Learning capabilities in a Command and Control Center for covert field operations and situation awareness
- Presented by IPS

16:00–17:00
Artificial Intelligence doubles the accuracy of the latest generation of speaker identification
- Michal Minarovic, VP of Sales, Phonexia

**Thursday, 5 December 2019**

8:30–9:30
Decoding millions of apps using AI
- Presented by XCI
Track 6

5G Lawful Intercept and Forensics Training
This track is open to all attendees

**Tuesday, 3 December 2019**

16:00-17:00
LIMA 5G ready!
- Richard Coppens, CEO, Group2000

Wednesday, 4 December 2019

9:00-10:00
Lawful Interception in 5G Mobile Networks
- Presented by Utimaco

13:00-14:00
How to face the challenge of 5G?
- Presented by Sinovatio

14:30-15:30
Multi-Access Edge Computing (MEC) and LI
- Presented by Utimaco

16:00-17:00
5G: Keep Calm & Carry on with LI
- Presented by Yaana

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Track 7

Mobile Signal Intercept and Electronic Surveillance Training
This track is open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

**Tuesday, 3 December 2019**

11:30-12:30
Latest techniques of detecting IMSI catchers and Wi-Fi monitoring systems
- Presented by NeoSoft

**Wednesday, 4 December 2019**

9:00-10:00
Strategic intelligence to follow trends and reveal hidden targets
- Presented by Advanced Systems

13:00-14:00
VSAT Interception with Carrier-in-Carrier (CiC) separation
- Presented by Rohde&Schwarz

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**SESSION B**

Cellular Intelligence in Action. Real use cases solved by combining mobile location and traffic data from cellular networks
- Presented by Mobilaris

**SESSION A**

3G/4G native monitoring. Wi-Fi monitoring.
- Presented by NeoSoft

**SESSION B**

Tactical and Strategic Threat Detection and Geolocation
- Vincent Lee, Kratos

**Thursday, 5 December 2019**

8:30-9:30
Overview of Mobile Radio Analysis
- Presented by Rohde&Schwarz

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Registration Information

**Law Enforcement/DHS/IC/DoD Registration***
ISS World Conference Training Tracks 1, 2, 3, 4, 5, 6 and 7 Day 1 Seminars plus Exhibits .................................................. $995
Registration after 18 October 2019 ........................................... $1,295

**Telecommunications Service Provider or Enterprise Registration**
ISS World Conference (Tracks 1, 4 and 6), Pre-Conference Seminars and Exhibits ........................................... $995
Registration after 18 October 2019 ........................................... $1,295

**Vendor Registration**
ISS World Conference (Tracks 1, 4 and 6), Pre-Conference Seminars and Exhibits ........................................... $995
Registration after 18 October 2019 ........................................... $1,295

*Note: To Attend the LEA/DHS/IC/DoD Training Tracks 2, 3, 5, & 7 you must be a sworn law enforcement officer or military/intelligence/government employee. Also you must register by 30 November 2019 in order to verify eligibility. Government photo ID required for Tracks 2, 3, 5, & 7 classroom access.

**Free Colleague Registration:**
Register as paid and you can invite a colleague to join you at ISS World Asia 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:**
DoubleTree Kuala Lumpur Hotel.
Special ISS World early registration rate: $81 US per night. Telephone 60-3-2172-7272.

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

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**ISS World Asia Exhibit Hours**

**Wednesday, 4 December 2019:**
10:00 - 18:00

**Thursday, 5 December 2019:**
9:30 - 12:30

**Registration**

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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.