IACIS

International Association of Computer Investigative Specialists

34TH ANNUAL
ORLANDO TRAINING EVENT

FORENSIC EXPLORER

Advanced Forensics Software

- Artifacts
- Browser History
- Case Management
- Data Recovery
- Email Analysis
- File Carve
- Hashing
- Index Search
- Keyword Search

- Live Boot - Virtualization
- Metadata
- Registry
- Remote Network
- Reporting
- Scripting
- Shadow Copy
- Signature Analysis
- Skin Tone

Training:

FEX Certified Examiner (FEXCE) - 4 days
On-site custom classes
Software & training bundles
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GetData
FORENSICS

IACIS

International Association of Computer Investigative Specialists

34th Annual Training Event

Orlando, Florida
April 22 – May 3, 2024

Welcome from
Gene Shantz, IACIS President

Welcome to the 2024 IACIS training event at the Caribe Royale hotel and conference center in sunny Orlando, Florida.

Approximately 800 students and 150 staff members are converging on this spacious hotel during the next two weeks, and I hope I get a chance to meet each one of you. Our staff members are easily identifiable by the polo style shirts with the IACIS logo on the left chest. If you have any questions or need assistance while here, please contact one of us. We truly hope you enjoy your time here and make a few life-long friends along the way.

As an all-volunteer organization, IACIS has been providing computer forensic training for over 33 years. IACIS instructors and trainers are Certified Forensic Computer Examiners (CFCE) and are active in the field of computer forensics and volunteer their time and energy to develop and teach this material to you, the students. All IACIS training material is reviewed and updated each year by our trainers to ensure that it is relevant and up to date to meet the changing needs of digital forensic examiners.

The goal of IACIS training is for students to learn and ensure that no student is left behind. Classes combine computer forensic theory and hands-on practical exercises. A trainer is assigned to each row of 6-8 students. While an instructor teaches a class, the trainers are always present to assist. Trainers monitor their students' progress to ensure each student understands the material being taught and is keeping pace with the class.

The Basic Computer Forensic Examiner (BCFE) is the flagship training course taught by IACIS. There are no pre-requisites for the BCFE training. Any computer knowledge a student brings to class is a plus and will make the lectures and practical exercises much easier to grasp. We begin with the basics and quickly move into highly technical theories, terms, and techniques. The BCFE provides 90% of what you need to know to successfully complete the six-month CFCE process. The BCFE course has optional evening computer labs for those wanting additional hands-on time. Students who go on to undertake the CFCE certification process are provided with a coach to assist them with the peer review problem sets.

IACIS Specialist classes provide a more in-depth study of forensic topics. The IACIS Windows Forensic Examiner and Mobile Device Forensics classes are preparation classes for our Certified Advanced Windows Forensic Examiner (CAWFE) and Certified Mobile Device Examiner (CMDE) certifications. The cost of the certifications is included in the course fee and students enrolled in IACIS-taught specialized courses will also receive a laptop included in the cost of the course. Each class has a list of core competencies publicly available on our training page at www.iacis.com.

Volunteers are the backbone of IACIS. Every training event and certification that IACIS offers is developed, maintained, and run by volunteers. Without our volunteers, we would be unable to offer the world-class training and certifications we are known for.
If you are interested in volunteering, you can email volunteering@iacis.com.

Fasten your seatbelts and get ready to enjoy the ride, that will be an experience you will remember for a lifetime. The next two weeks will hopefully be challenging and rewarding for everyone. Whether you are serving as a member of staff or a student in a classroom, we can all learn from each other. Enjoy your time at the Caribe Royale and we hope you come back to see us at future events.

Gene Shantz

IACIS President

IACIS
The International Association of Computer Investigative Specialists

Chance to WIN! *

An Evening with the EXPERTS

WEDNESDAY
APRIL 24
6–7:30PM

CARIBE ROYALE ORLANDO
CARIBBEAN BALLROOM

*enrollment in an online IACIS course, winner's choice!

THE FUTURE OF FORENSICS
DEALING WITH NEW TECHNOLOGIES

SARAH HAYES

CHRIS PROGUE

BRANDON EPSTEIN

Join us for "An Evening with the Experts" on April 24, 2024, for a 90-minute event focused on The Future of Forensics – Dealing with New Technologies. Three industry experts will share their knowledge and insights through brief presentations on Oura Ring research and forensics, deep fake video and image forensics, and new free tools coming your way to assist with IoT forensics.

BCFE Schedule of Events - Week 1

Week 1	Monday	Tuesday	Wednesday	Thursday	Friday
08:00	Opening Session	Disk Structures **	NTFS File System **	Ex-FAT**	Intro to Forensic Analysis & Scenario
08:30					
08:50-9:00	Break	Break	Break	Break	Break
09:00	BIOS, Boot Sequence, and Boot Environments **	Disk Structures **	NTFS File System **	Ex-FAT **	Forensic Search Methodologies
09:30					
9:50-10:00	Break	Break	Break	Break	Break
10:00	BIOS, Boot Sequence, and Boot Environments **	FAT File System **	NTFS File System **	Ex-FAT**	RAM Capture & Analysis **
10:30					
10:50-11:00	Break	Break	Break	Break	Break
11:00	BIOS, Boot Sequence, and Boot Environments **	FAT File System **	NTFS File System **	Case Documentation	RAM Capture & Analysis **
11:30					
11:50-13:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
13:00	Numbering Systems **	FAT File System **	NTFS File System **	Case Documentation	RAM Capture & Analysis **
13:30					
13:50-14:00	Break	Break	Break	Break	Break
14:00	Numbering Systems **	FAT File System **	NTFS File System **	First Responder	Validation, Acquisition & Control & Practical Exercise
14:30					
14:50-15:00	Break	Break	Break	Break	Break
15:00	Introduction to Hex Editor **	FAT File System **	NTFS File System **	First Responder	Forensic Acquisition Practical Exercise **
15:30					
15:50-16:00	Break	Break	Break	Break	Break
16:00	Disk Structures **	FAT File System **	NTFS File System **	Hashing & Hash Sets **	Forensic Acquisition Practical Exercise **
16:30					
16:50-17:00	END OF DAY	END OF DAY	END OF DAY	END OF DAY	END OF DAY
LAB		*LABORATORY*	*LABORATORY*	*LABORATORY*	NO LABORATORY

BCFE Schedule of Events - Week 2

Week 2	Monday	Tuesday	Wednesday	Thursday	Friday
08:00	SQL Databases	Windows Artifacts	File Headers & Carving	P2P/Cloud	Mac Triage
08:50-9:00	Break		Break	Break	Break
09:00	SQL Databases	Windows Artifacts	File Headers & Carving	P2P/Cloud	Mac Triage
09:30					
9:50-10:00			Break	Break	Break
10:00	SQL Databases	Windows Artifacts	File Headers & Carving	P2P/Cloud	Mac Triage
10:30					
10:50-11:00	Break		Break	Break	Break
11:00	File Metadata	Windows Artifacts	Internet Artifacts (Browsers) **	Intro To Timeline Analysis	Mac Triage
11:30					
12:00-13:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
13:00	Compound Files	Windows Artifacts	Internet Artifacts (Browsers) **	Digital Soup	Specialized Overview **Ethics/Certification** eServices / Admin
13:30					
13:50-14:00	Break	Break	Break	Break	
14:00	Windows Registry	Windows Artifacts	Internet Artifacts (Browsers) **	Digital Soup	
14:30					
14:50-15:00	Break	Break	Break	Break	
15:00	Windows Registry	Windows Artifacts	Encryption	Court Testimony / Moot Court	
15:30					
15:50-16:00	Break	Break	Break	Break	Closing
16:00	Windows Registry	Windows Artifacts	Encryption	Court Testimony / Moot Court	
16:30					
16:50-17:00	END OF DAY	END OF DAY	END OF DAY	END OF DAY	
LAB	*LABORATORY*	*LABORATORY*	*LABORATORY*	NO LABORATORY	

Gold Sponsor Vendor Nights & IACIS Evening Events

Gold Sponsor - Vendor Nights are an opportunity for our sponsors to introduce you to their products and services. During these evening presentations, many of our sponsors will raffle substantial products and services.
On April 24th, there will be food and adult beverages brought to you by IACIS and our opening night sponsors!

Monday, April 22 - 6:00pm - 7:30pm
*Food and Beverage Service starting at 6:00pm

Tuesday, April 23 - 6:30pm - 7:30pm

Wednesday, April 24 - 6:00pm - 7:30pm
An Evening with the Experts

Thursday, April 25 - 6:30pm - 7:30pm

Monday, April 29 - 6:30pm - 7:30pm

Tuesday, April 30 - Membership Meeting

Wednesday, May 1 - 6:30pm - 7:30pm

Many of our gracious sponsors offer special licenses to students and staff, signups will be available in your classroom. Show your appreciation of these wonderful offers by visiting them at their booths while they are here!
Giveaway distribution methods may vary; contact IACIS at VendorLiaison@iacis.com if you encounter issues with delivery or delays, instead of directly contacting sponsors.

Cellebrite
TRAINING

Empowering Justice through Expert Digital Forensics Training

Embark on your educational journey with Cellebrite Training, where we prioritize your success. Our comprehensive courses empower you to accelerate your examination workflow, strengthen investigations and close cases faster.

Master techniques, tools and methodologies crucial for navigating digital investigations with confidence. Courses are offered in mobile, computer and evidence repair and recovery. Below are our most popular courses:

✦ **Cellebrite Certified Operator (CCO) + Cellebrite Certified Physical Analyst (CCPA)**
- Mobile device handling and extraction skills.
- Advanced search techniques using Physical Analyzer.

✦ **Cellebrite Advanced Smartphone Analysis (CASA)**
- Forensic recovery of application data.

✦ **Cellebrite Apple Forensics Fundamentals (CAFF)**
- Triage and analysis of MacOS and iOS artifacts.

✦ **Cellebrite Evidence Repair Technician – Forensic (CERT-F)**
- Repair mobile devices with disassembly and reassembly techniques.

✦ **Cellebrite Pathfinder Training (CPT)**
- Familiarize users with the Cellebrite Pathfinder solution.

Capstone certifications in mobile, computer and recovery repair are also available.

Unlock your potential!

◀ Scan the QR code
Get certified today!

For more information on Cellebrite Training's courses, please visit celebrite.com/en/training

contact Training@cellebrite.com to discuss your digital forensics educational needs with your regional Training Account Manager.

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Our digital forensics solutions aren't just about hardware, training, software, and services – they're about our dedicated team, committed to your success and ready to support you every step of the way. It's our mission to provide the best support possible because we know that behind every case, there's a person, a community, and a world that matters.

RECON ITR   RECON LAB   PALADIN

TALINO   SUMURI TRAINING   SUMURI PROFESSIONAL SERVICES

IACIS Certifications

IACIS Certified Forensic Computer Examiner (CFCE) certification is a widely-recognized rigorous 6-month program to confirm the applicant's mastery of computer forensic methodology. During a peer-review phase, the applicant works with a coach to demonstrate knowledge of computer forensics topics and skill in applying that knowledge to practical exercises. Following successful completion of the peer-review process, applicants enter a certification phase where they are given a final knowledge test and an in-depth practical examination to complete.

Most applicants come to the CFCE process by way of the IACIS Basic Computer Forensic Examiner (BCFE) course taught at IACIS training events in the United States and Europe.

Successful completion of the two-week BCFE course entitles the student to apply for CFCE certification. An external CFCE certification option is also available for applicants who have not completed BCFE but have equivalent knowledge and training in digital forensics.

The CFCE certification is valid for three years and can be renewed by demonstrating continuing education and successfully completing a proficiency exercise.

The IACIS CFCE is accredited by the Forensic Specialties Accreditation Board (FSAB).

Certified Advanced Windows Forensic Examiner (CAWFE) is an advanced certification drawn from a set of competencies specific to the Windows operating system, including par-titioning schemes, file systems, Registry, Windows-specific artifacts and live memory acquisi-tion and analysis.

The CAWFE certification program is implemented as two separate assessments. The first component is a written examination that tests the applicant's range of knowledge of Win-dows forensic topics. After passing the first test, the applicant is given a practical assessment based on a set of image files and Windows artifacts.

The IACIS Windows Forensic Examiner (WFE) course, offered at IACIS training conferences, is a five-day, 36-hour class including lectures and instructor-led practical exercises using live Windows systems and a wide variety of tools. The course is also available in an online format. The WFE curriculum covers many of the topics encountered during CAWFE certification, though applicants are encouraged to study other available Windows forensics resourc-es prior to attempting certification.

The CAWFE certification is valid for three years and can be renewed by demonstrating continuing education and successfully completing a proficiency exercise.

IACIS Certified Mobile Device Examiner (ICMDE) ertification demonstrates advanced knowledge and skill in the acquisition and analysis of mobile device evidence. As with CFCE and CAWFE certification, applicants must demonstrate competency by successfully complet-ing both a knowledge exam and a practical exercise based on Android and IOS images and artifacts.

The IACIS Mobile Device Forensics (MDF) course, taken as either a 36-hour live-instructor class or online, is the foundation for the skills required to achieve ICMDE certification. Both the course and the certification program use a tool-independent, device-agnostic approach to acquiring and analyzing mobile device evidence.

IACIS ICMDE certification is valid for three years and can be renewed by demonstrating continuing education and successfully completing a proficiency exercise.

IACIS Board of Directors

Chairman of the Board - *Darren Freestone*

Darren Freestone has been volunteering for IACIS since 2002 and joined the Board of Directors in 2019. He spent 16 years in law enforcement, another 6 years in the private sector, and he is now back in law enforcement once again. His skills and experience include digital forensics, open-source intelligence, R&D, reverse engineering, training and software development.

Darren wishes to see IACIS continue to grow its membership internationally whilst improving the quality and diversity of its products and services.

President - *Gene Shantz*

Gene Shantz, currently the Vice President of Incident Response at Stroz Friedberg, brings over 11 years of law enforcement experience, culminating as Detective Sergeant at Flagstaff Police Department. He attained his CFCE in 2008 after completing the coveted IACIS BCFE course. Shantz served as a CFCE coach from 2008, joining the Communications Committee in 2009. He contributed significantly to the 2010 Orlando Training Event, developing student materials and instructing several courses. Gene has been part of IACIS training staff ever since. Elected to the Board of Directors in 2013, he secured re-elections in 2016, 2019, and 2022, now serving his fourth term, showcasing his ongoing commitment and leadership within the organization.

Vice President - *Brent Whale*

Brent has been an IACIS member since 2001 when he attended the Basic class in Orlando as a member of the New Zealand Customs Service. Brent retired from Customs after twenty-two years of service in 2007 and is now the owner of Computer Forensic Solutions Ltd. Brent has had an active involvement with the Certification Committee having been a Coach, Regional Manager, Divisional Administrator, and Chairman of Problem Development. Other IACIS roles include being the Chairman of International Relations and a Training Committee member. He was elected to the Board of Directors in 2011 and has been the Director of Standards, Marketing Director and now Vice President.

Treasurer - *Erin Raleigh*

Erin Raleigh, a 25-year veteran of the Spokane Police Department, serves as a Detective in the Technical Assistance Response Unit (TARU) and the Explosive Disposal Unit (EDU). Starting his forensic career in 2014, Erin attended the IACIS BCFE training conference in 2015 and obtained his CFCE in November 2015. He conducts digital forensic examinations for the Spokane Police Department as well as neighboring agencies. In addition, he provides technical support and training on technology-based equipment and digital forensic practices. Since 2018, Erin has volunteered for IACIS as a BCFE roach coach and instructor and was elected to IACIS's Board of Directors in 2022. Erin is dedicated to advancing the organization's membership and enhancing IACIS's training curriculum for the future.

Secretary - *David Melvin*

David Melvin, owner of Think Forensics, brings 24 years of digital forensics and training expertise. Formerly Director of Training and Services at SUMURI and DFIR Manager at Stroz Friedberg, David retired from a 23-year federal law enforcement career. His investigations spanned commercial smuggling, cybercrime, narcotics, and more. David has instructed college-level computer forensics and has taught Mac forensics globally. He has developed courses for IACIS BCFE and presented specialized courses at IACIS and other training events. David has a Bachelor's in Criminal Justice and a Master's in Computer Science. David is a lifetime member and has served in various roles within IACIS before being elected to the Board of Directors.

IACIS Board of Directors

Certification - *Todd Bignucolo*

Todd Bignucolo is a police officer in Sudbury, Ontario, Canada. In 2008, Todd attended the BCFE course in Florida, obtaining his CFCE in 2009. From 2009 to 2019, Todd was active in the CFCE Peer Review phase, holding the positions of Coach, Regional Manager, and Division Administrator. In 2016, Todd became part of the training staff at the BCFE conference. Also in 2016, he earned his ICMDE certification. In 2019, Todd took on the role of CFCE Certification Chairman until he was elected to the Board of Directors in 2020. Todd has also been a member of the High Technology Crime Investigation Association (HTCIA) and Ontario's Provincial Strategy to Protect Children from Sexual Abuse and Exploitation on the Internet.

Marketing - *Rich Johnson*

Rich has been in law enforcement since 2000 and digital forensics since 2012, currently managing a small law enforcement lab in Ohio aiding over 100 agencies. He teaches digital forensics at the collegiate level and conducts internal training for officers, investigators, and prosecutors. Inspired by attending the 2015 IACIS BCFE event, Rich became a volunteer, obtaining CFCE certification and serving in various roles including Peer Review Coach and Volunteer Coordinator. He holds certifications including CFCE, CCME, GASF, and 3CE. Rich's dedication to advancing digital forensics is evident through his extensive experience, training, and involvement with IACIS.

Standards – *Felicia DiPrinzio*

Felicia has been a Digital Forensic Examiner in law enforcement since 2008 and currently works for the Baltimore County Police Department in Maryland. Prior to working with the BCoPD, she worked in New Zealand with the NZ Police, the Harford County Sheriff's Office in Maryland and the Federal Bureau of Investigation. Felicia has been a member of IACIS since 2009 and attended BCFE in 2015. She obtained the CFCE in 2015 and promptly applied to be on staff. She was a file systems instructor and row coach at the Orlando 2016 and 2017 conferences, and after attending MDE and obtaining the ICMDE in 2019, she became a course developer and instructor for MDE from 2019 – 2022. She has also been on the ICMDE certification team and problem set developer since 2021.

Training – *Erin Mitchell*

Erin is currently a Lieutenant with the Texas Office of the Attorney General and has been a Digital Forensic Examiner since 2009. Erin has been an active IACIS member since 2013 when she attended the Basic class in Orlando. Since earning her CFCE, Erin has had an active involvement with IACIS. Erin has been a peer review coach, Orlando training staff member, Certification Assessor for the CFCE and ICMDE, Chairman of the Mobile Device Examiner training and development. Other IACIS roles have included Chairman of Mobile Device Certification as well as being a developer for the Certification. Erin has also been an active team member with the Training Committee.

E-Services – William Oettinger

William Oettinger is a renowned expert witness and subject matter expert in cybersecurity and computer forensics. A member of IACIS since 2006, he earned his CFCE certification in 2007 and has been a Peer Review coach since then. With over 20 years of service, Bill retired from the Las Vegas Metropolitan Police Department in 2014 and from the US Marine Corps as a CID Agent (Reserve) in 2015. He's authored "Learn Computer Forensics" and teaches graduate-level cybersecurity courses at the University of Maryland Global Campus and Yeshiva University. Bill has instructed globally, including for law enforcement agencies in the US, Mexico, Jamaica, and Morocco. Holding numerous certifications, he's collaborated with various international organizations in the field.

OxOF

Meet the Incoming Directors!

ZUBIN MEDORA embarked on his journey at IACIS with the Basic Computer Forensic Examiner (BCFE) Training in 2006 and was deeply moved by the dedication of the instructors and staff. Following his Certified Forensic Computer Examiner (CFCE) certification, he became a BCFE Coach in 2008 and concurrently served as a Peer-Review coach for three years. Since then, Zubin has been an integral instructor and coach for the annual 2-week BCFE Training, later assuming the role of Topic Lead. His leadership led him to become the Assistant Chair of BCFE in 2011, overseeing the smooth operation of the Orlando course. In 2014, Zubin became Chair, directing the development and execution of the 2-week BCFE training for the subsequent decade until the end of the 2023 BCFE event. Zubin is currently in the Investigations Division of a US Sheriff's Office.

ALAN THOMAS is a retired law enforcement officer, bringing 31 years of experience from the Metropolitan Police Service (MPS) in London, where he retired as a Detective Sergeant in 2008. Throughout his tenure, he served as a general crime investigator and specialized in financial investigations, notably in the Central London Crime Squad and CIB3. He played a pivotal role in establishing the MPS Computer Forensics Lab and later ran the Computer Forensics Lab at the Anti-Terrorist Branch (SO13) during significant events like the 2005 London bombings and the thwarted transatlantic jet bombing plot. Post-retirement, Alan worked at Vodafone Group as a forensic investigator before joining Cellebrite as a Senior Instructor and Training Developer until his retirement in 2022. An IACIS member since 1999, Alan became the first CFCE-certified individual in the UK and has actively contributed as a coach and presenter in numerous BCFE and Mobile Device courses, aiming to enhance the organization's growth and adaptability, particularly from a European perspective, amidst evolving technological landscapes.

IACIS
International Association of
Computer Investigative Specialists

IACIS Lifetime Members

The Lifetime Membership Award is one held in the highest regard by the International Association of Computer Investigative Specialists (IACIS). Our Lifetime Members have demonstrated exceptional volunteerism and contribution towards the betterment of IACIS over years of service. Below are just a few of our marvelous Lifetime Members:

| Steve Whalen | Ed Moore | Jim Dibble | Mark White | Lisa Calarese |

| Dean Chatfield | Bob Weitershausen | Keith Lockhart | Joe Duke | Dewey Watkins |

2022 & 2023 LTM Spotlights

Rob Attoe joined IACIS in 2003 and has served in many capacities such as: WFE chair, OSINT chair, Applied Scripting Foundations chair, and currently the First Responders Course Chair. He has taught various courses beyond the list above and contributed to discussions for major European contract submissions. In addition, he is contributing to the instructor developer program, shaping the future of trainers' delivery techniques. After 15 years of crafting and imparting DFIR training for software vendors, Rob initiated Spyder Forensics. It stands as a specialized digital forensics training organization offering courses worldwide, all while upholding principles that match the IACIS mission. He remains engaged in both ongoing research and the delivery of training, concurrently overseeing the entire Spyder team.

Thomas Reinert attended the 2003 BCFE class in Orlando, obtaining his CFCE certification in July 2004. He began his staff tenure in 2005 as a row coach and has since held roles as CFCE coach, Regional Manager for Europe, Division Administrator for Europe/UK/Pacific Rim, and now serves as CFCE Peer Review Chairman. Engaged in various BCFE classes in Orlando and Germany as a coach and trainer, he was honored with Lifetime Membership by the Board of Directors in May 2023. With 36 years in law enforcement, Thomas resides with his family in Southwest Germany. Beyond work, he cherishes family time, gardening, hiking, and volunteering for IACIS.

For a full list of our Lifetime Members, visit:

ArtiFast

Timeline Based Digital Forensics Analysis

Digital forensics is changing rapidly, cyber-attacks are getting more sophisticated and incident response is getting more important. Nowadays, digital forensics analysis is not simply to parse artifacts or recover deleted items. Instead, digital forensics analysts are trying to answer questions like what happened, when, why, how did it happen and if possible also who did it. Adversaries interact and leave footprints everywhere on digital systems. Digital forensics analysts analyze systems for user activity around the time of incidents. Timeline-based digital forensics analysis will help analysts to find various artifacts pointing to the same evidence which will substantiate the same fact and increase overall weight of evidence.

ArtiFast

Artifast is the latest solution from Forensafe Software Solutions which can take disks, image files and folders as input to recover artifacts. All artifacts, carved in different formats like plaintext, XML, binary, Registry, encrypted, compound or complex, will go through parsing where forensically valuable time-centric data is extracted. Not all artifacts are the same, thus parsed entries will go through normalization which will help evidence to be organized in a clear and precise way. Extracted data is saved and sorted chronologically in databases. Effective user interface provides efficient searching, filtering, coloring and reporting to digital forensics analysts.

Why ArtiFast?

There are hundreds of events happening every minute on digital systems. The huge amount of data generated by timeline analysis may easily overwhelm digital forensics analysts. Timeline-based digital forensics tools should provide abilities to make investigators job of finding evidence among millions of records easier. To solve this, Artifast supports indexing, powerful filtering and searching. Artifast provides both "Artifact" and "Timeline" views to digital forensics analysts. Furthermore, Artifast handles case management via workspaces to create more efficient analysis environment.

Supports 2100+ Artifacts and Counting
Supports wide-range of Artifact types

Multi OS Support
Supports Windows, Android, iOS, macOS, Linux and File artifacts

Easy Yet Advanced Filtering
Granular filtering through user friendly interface
Ability to write your own filter with easy-to-learn query language

Search Faster
Quick search with flexible data filtering feature

Organized Timeline
Coloring Ability based on Artifact type
Ability to add Bookmarks and Notes

Metadata Parsing
Indexing for over 170 different file types

Content Indexing
File content indexing for over 170 different file types

Integrated File Viewer
Support for hundreds of file types including documents, multimedia and database files

Normalization
More normalized columns than currently available tools

Reporting
Generating 6 different types of detailed and normalized reports

FORENSAFE
SOFTWARE SOLUTIONS
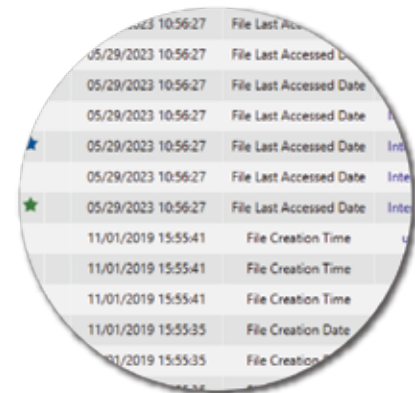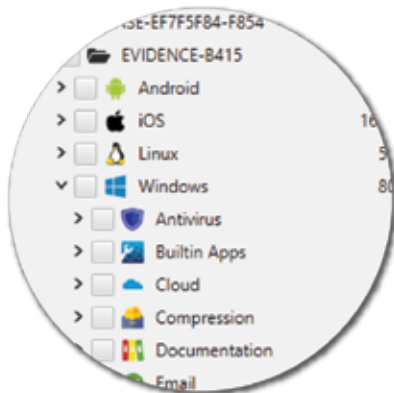
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IACIS 2024 Volunteers

IACIS 2024 Volunteers

Introducing the Dogs of IACIS

2024 Scholarship Winners

2024 WINNER
WOMEN IN LAW ENFORCEMENT SCHOLARSHIP

SARAH MCKALIPS
INDIANA UNIVERSITY POLICE DEPARTMENT

2024 WINNER
WILL DOCKEN SCHOLARSHIP

JAZZLYN SILVA
QUINCY POLICE DEPARTMENT WASHINGTON

IACIS
PODCAST

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Pro
XRY

XRY Pro offers a software suite of high-level exploits for advanced access to some of the most modern and difficult-to-breach phones, without requiring an internet connection or an extra exploitation box. It has unmatched coverage for UNISOC and MTK chipsets, and leads the way in mobile RAM extraction.

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XAMN

XAMN Pro redefines the way you analyze data. Through unprecedented search, linking, and filtering options, you can identify & visualize data from multiple device extractions simultaneously. Its powerful Report Builder makes it effortless to create reports and share your findings.

From crime to court room – XAMN Pro ensures the fastest route to forensic excellence.

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Trusted Partner in Digital Forensics

CASESCAN
by netspark

Identify all CSAM generations to gain actionable evidence using AI Quickly, Accurately, and Safely

CaseScan enables law enforcers to sweep through TB of data from suspect devices and get initial results within minutes, with unprecedented accuracy – while reducing investigators' heavy psychological toll.
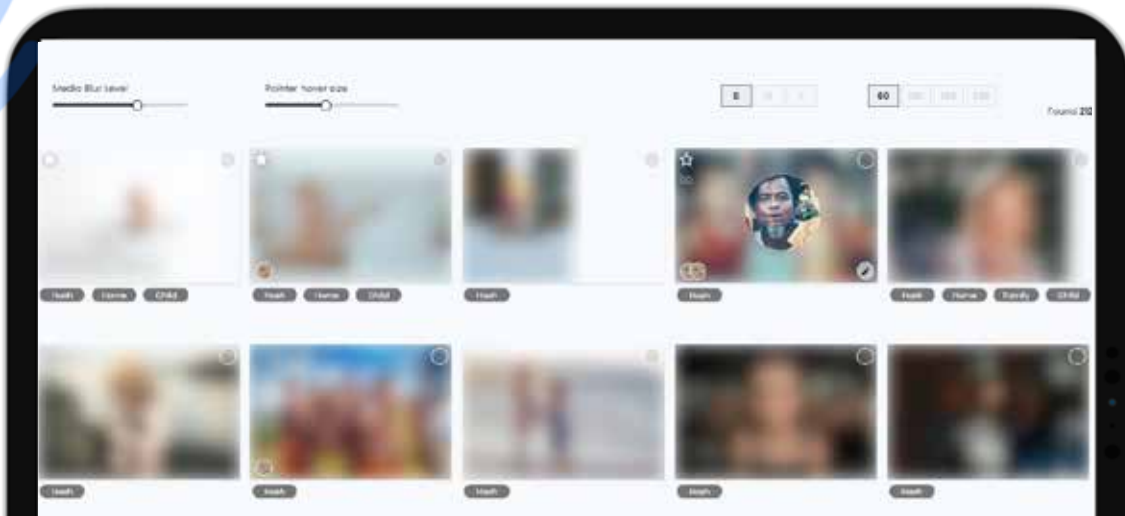
Finding a needle in a haystack

CaseScan's AI pinpoints CSAM with superior accuracy.
The results can then be filtered by location, origin (web or 1st gen) device model, label, or filetype (videos or images).
No need to watch videos in order to identify their content - CaseScan will summarize the video and present relevant frames instead!

INITIAL RESULTS WITHIN MINUTES

Fast
CaseScan analyzes terabytes of data very quickly and displays initial results within a few minutes.

Accurate
Superior accuracy thanks to AI capabilities developed by Netspark over the past 13 years.

Keeping the investigators safe

Viewing CSAM materials takes a heavy psychological toll on the investigators, who are continuously exposed to emotionally damaging content. Netspark's AI solution helps protect them from unnecessary exposure.

Contact us for additional information/demo   info@casescan.com

IACIS HISTORY

In February 1991, IACIS held its first training class at the Red Lion Hotel located in Portland, Oregon. Some of the topical courses taught during this first training event included: preparing search warrants, undeleting files, file compression, and ethical use of software. It is interesting to note that many years later, these foundational courses are still an integral part of the IACIS training curriculum being taught today.

Subsequent training classes were held in Portland, Oregon during 1991, 1992, 1993, and 1995. A special training course was offered for the US Army in 1992, while another was held in McLean, VA in 1994. In 1995, a training course was taught in Hong Kong, marking the first time the course was hosted overseas. In 1996, IACIS moved its annual training event to the Orlando, Florida area, where it has remained to this day. As the popularity of the specialized forensic training and corresponding membership in the organization continued to grow, the reputation of the organization spread internationally.

In 2006, IACIS entered into a training partnership with organizations within the European Union to provide basic and specialized computer forensic training to the European Union law enforcement community. The training was hosted in Germany through 2012, when the contract ended. In 2013, IACIS entered into a similar partnership to continue providing computer forensic training to members of the European Union law enforcement community, but the training was moved to Croatia where it is currently being held. As a testimony to its international focus, IACIS has also previously provided computer forensic training in Australia and most recently in New Zealand.

From its very inception, IACIS was built upon two foundational pillars – training and certification. Aside from training and foundational to its core purpose, IACIS has been instrumental in the development and implementation of a carefully constructed certification process for its membership. In those earlier days, those successfully completing the IACIS training were granted the DOS Seizure Certificate (DSC) and offered the opportunity to complete an additional set of post-training problems and testing. Those successfully completing the problem set and rigorous testing were granted the DOS Processing Certificate (DPC).

Over its vibrant and colorful history, IACIS has emerged as a premiere international organization specializing in training and certification in the field of computer forensics. As a testimony to its continual pursuit of excellence in the scientific discipline of computer forensics, in 2012 IACIS was accredited by the Forensic Specialties Accreditation Board (FSAB) and is recognized as the first computer forensics organization accredited for its certification program (CFCE). Later that same year IACIS began offering certification as a part of the Certified Advanced Windows Forensic Examiner's program. Today IACIS is governed by an 11-person Board of Directors and consists of approximately 2,200 members and 1,800 CFCE's located around the world.

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IACIS Specialized Courses

AMDF - Advanced Mobile Device Forensics Training Program

The IACIS Advanced Mobile Device Forensics Training Program is a 36-hour course of instruction, offered over five (5) consecutive days. Take your mobile forensics investigative skills to the next level with our comprehensive course on Advanced Mobile Device Forensics. This class is designed for seasoned forensic examiners and investigators and will equip you with an intricate understanding of Android and iOS file systems.

ASF - Applied Scripting Forensics

The IACIS Applied Scripting Forensic course will equip you with the practical skills and knowledge to exploit data using a variety of scripting languages. Students will learn the necessary skills to extract data from diverse sources using scripting languages such as RegEx, SQLite, BASH, Python and PowerShell. Using Linux, we will explore alternate extraction techniques at the command line to further exploit unstructured file data.

BCFE: Basic Computer Forensics Examiner

The IACIS Basic Computer Forensic Examiner (BCFE) training has no prerequisites, and any computer knowledge is a plus. The 76-hour course covers basic and highly technical theories, terms, and techniques. The BCFE provides 90% of what is needed to complete the CFCE process, with optional evening computer labs for extra hands-on time. CFCE candidates are provided with a coach to help with peer review problem sets.

CFRW: Computer Forensics – Real World

The IACIS Computer Forensics: Real World (Formerly Applied Computer Forensics (ACF)) course is a 36-hour course of instruction taking students through a realistic case scenario built on the Windows 10 Operating System. This class uses the latest versions of the major and emerging forensic tools on the market, to look at different artifacts and lets you determine the strengths and weaknesses of each tool. The class is led by users of the tools (rather than vendor trainers) and examines a real-world type of case giving students the opportunity to evaluate the software in a unique, open, and honest environment.

CIFR: Cyber Incident Forensic Response

This two-week incident response training teaches investigation concepts for both the network and endpoint levels. The level of training is deep and broad enough so the student understands the concepts and processes and can apply them to an investigation.

ECIFR - Enterprise Cyber Incident Forensic Response

The IACIS Enterprise Cyber Incident Forensic Response (ECIFR) class is a natural follow-on for the IACIS CIFR class. It is an expansion of skills from analyzing a small number of systems using traditional imaging + manual analysis processes, to introducing and building skills that allow the student to analyze systems at scale, building and implementing toolsets to analyze systems spread across the network.

IACIS Specialized Courses

MDF: Mobile Device Forensics
The Mobile Device Forensics Training Program is a 36-hour course of instruction. The program will expand the students existing mobile forensic knowledge and skillset and is designed to provide students with intermediate to advanced skills needed to detect, decode, decrypt, and analyze evidence recovered from mobile devices during mobile device investigations.

MDFL: Managing a Digital Forensic Lab
The IACIS Managing a Digital Forensic Laboratory (MDFL) Training Program is a 16-hour course of instruction designed to provide supervisors, managers and executives with the best practices in digital forensic laboratory operation Topics include training and certification of examiners, case and evidence management, and development of policies and procedures.

OSINT: Open-Source Intelligence
This is an introductory course in Open-Source Intelligence (OSINT) information research, collection, exploitation, and analysis. OSINT is becoming increasingly important across investigations of all types, especially for law enforcement and government agencies. This course will teach the student how to protect themselves and their organization by providing defensive techniques in the operating environment, including misattribution and creation and usage of sock puppets.

PLA: Preparing for Lab Accreditation
The IACIS "Preparing for Lab Accreditation" (PLA) is a three-day course of instruction. This course is designed for examiners, supervisors, managers, and executives that have the responsibility to develop and implement policies and procedures within a digital forensic unit or laboratory in their efforts to obtain accreditation.

RCA: RAM Capture and Analysis
This is a five-day course designed for the law enforcement professional that needs to leverage volatile memory to find evidence that does not exist on disk. The students will learn different techniques to capture RAM on Windows, Mac, and Linux systems. The class will progress just like an investigation.

WFE: Windows Forensic Examiner
The WFE Training Program champions a forensic tool-independent approach to learning. This approach allows for a deeper exploration of the underlying subject matter than might be afforded in other programs which are designed to complete a particular task or view/extract a particular artifact. The WFE Training Program is designed to build on and expand the students existing forensic knowledge and skillset and is not an entry level class. Prospective students should reference the "Prerequisites" section elsewhere in this document for additional information about expectations for students.
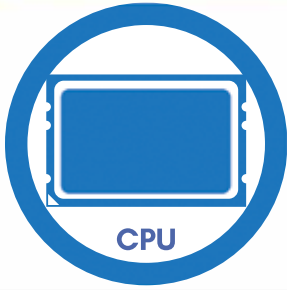
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- Budget Friendly
- No Dongles
- Exceptional Customer Service
- Free 30-day Trial Available

Features Including:

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Export Cloud Drive	Memory Viewer	File System Broswer
Fast Scan Speeds	Deleted File Search	Create and Verify Hash Sets
Face/ Illicit Image Detection	Email and Image GPS Mapping	Localisation (KR, CN, HK, JP, ES)

Vendor Specialized Training

AADF - Applied Advanced Database Forensics
This is a Spyder Forensics class. This course covers the use of various applications and utilities to successfully identify, process, understand and exploit numerous database structures found on iOS, Android, Windows, and Apple systems. Students will gain knowledge of how relational databases function in the storage of records and fields of information to support a front-end application. SQLite will be covered in detail where the attendee will learn how to recover deleted information from Free Pages and unallocated space within the primary and journal files using scripting techniques. Additional databases will then be examined including ESE, LevelDB's and Binary Plists.

AVF: Advanced Video Forensics Course
The Advanced Video Forensics Course (AVF) is a five-day program for investigators and forensic analysts to gain deep understanding of digital video technology and authenticate digital video, including deepfake videos. Students learn how digital video is encoded and stored to provide expert analysis, identify the source of unknown video files, and interpret video from various sources. The course features open-source tools and the Medex Forensics video examination tool for real-world insights.

AXIOM - Magnet AXIOM Examinations (AX200)
Magnet AXIOM Examinations is ideal for those who require intermediate-level training with a digital investigation platform that covers cases involving smartphones, tablets, computers, and cloud data in a single collaborative interface. This course is the perfect entry point for examiners who are new to AXIOM. This course is taught by Magnet Forensics and is a four-day course.

CCO - CCO/CCPA - Cellebrite Certified Operator / Cellebrite Certified Physical Analyst
Cellebrite Certified Operator (CCO) is a two (2) day intermediate level certification course designed to further develop mobile device handling and data extraction skills. Cellebrite Certified Physical Analyst (CCPA) course is a 3-day advanced level program designed for technically savvy investigators, digital evidence analysts and forensic practitioners.

CERT-F - CERT-F - Cellebrite Evidence Repair Technician
Cellebrite Evidence Repair Technician – Forensic (CERT-F) is a five (5) day expert level course designed to teach investigators how to repair mobile phones to complete data extractions in a forensically sound manner. In this highly interactive course, students will learn best practices and how to replace key components on mobile devices and USB flash drives using proper disassembly and reassembly techniques. Students will learn how to use proper heat and basic soldering techniques to repair or replace components that include but are not limited to inoperative data and charging ports, broken LCD screens, power buttons, "home" buttons and other parts.

Vendor Specialized Training

DARK: Darknet Investigations for Law Enforcement
This course is taught by Spyder Forensics and will provide the student with the understanding of how to accomplish effective investigation of Darknet sites and users. The course will equip individuals with investigative skills to meet the new challenges offered by the anonymity of the Darknet.

MFSC1 - MFSC-101: The Best Practices in Mac Forensics - SUMURI
This training (MFSC-101) covers the process of examining a Macintosh computer from the first step to the last step in logical order. The course was designed for both the beginner Mac examiner as well as the advanced. Surprising to most is that the entire course is taught using a Mac to examine a Mac without the use of expensive automated forensic tools.

MFSC2 - MFSC-201: The Advanced Practices in Mac Forensics - SUMURI
The Advanced Practices in Mac Forensics (MFSC-201) course provides unparalleled vendor-neutral and tool-agnostic instruction in advanced topics relating to the forensic use and analysis of Apple hardware, technologies, and applications. Registrants must have taken MFSC-101, either week 1 or prior.

UAV: UAV (Drone)
Forensics – Spyder Forensics
This 36-hour advanced level course will equip you with the practical skills and competencies required to identify and extract various sources of data recoverable from Unmanned Aircraft Systems (UAS), also known as Drones, including their associated control devices in line with approved best practices.

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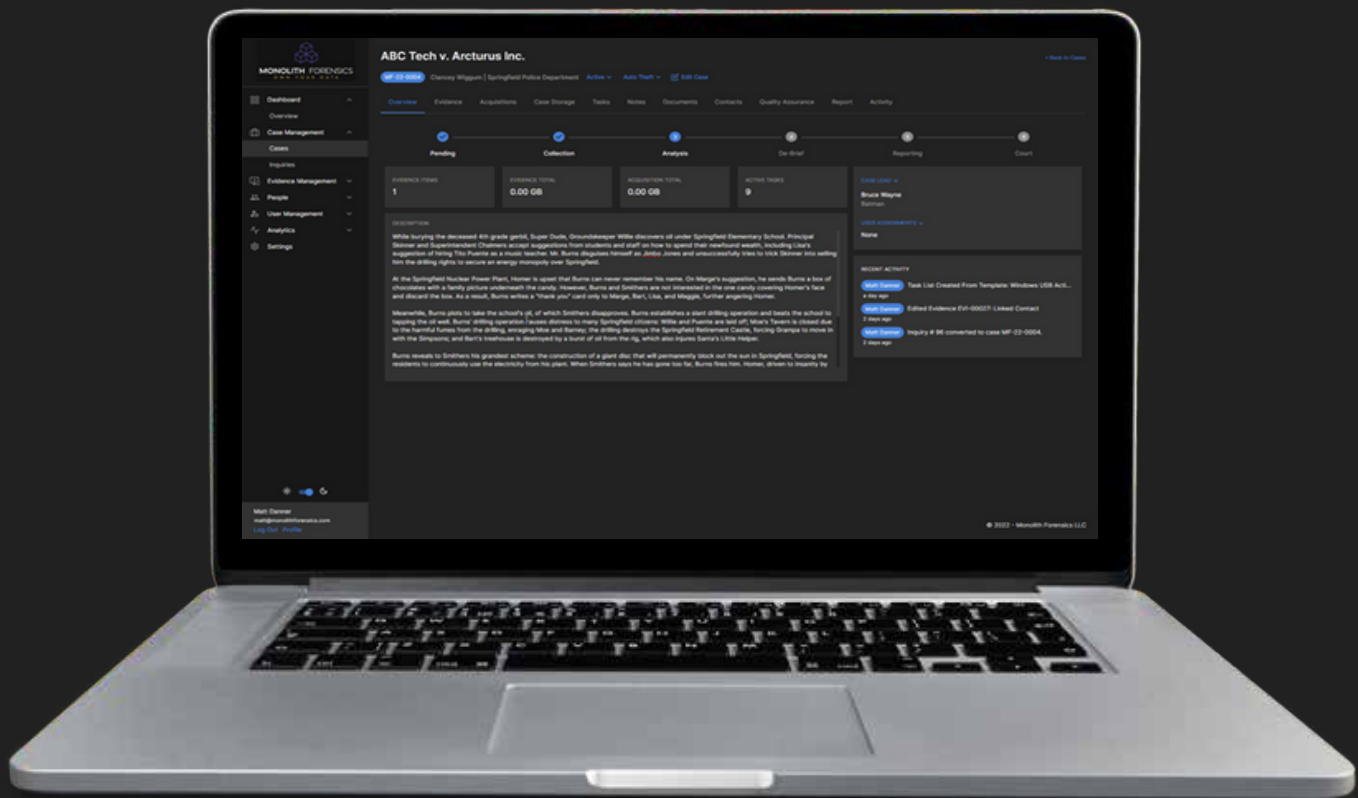
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IACIS

BASIC COMPUTER FORENSIC EXAMINER TRAINING

IACIS is a non-profit, volunteer organization wholly dedicated to training, certifying and providing membership services to computer forensic professionals around the world.

BCFE COURSE DETAILS

7 COURSE COMPETENCIES

1. Pre-Examination Procedures
2. Computer Fundamentals
3. Partition Schemes
4. File Systems
5. Data Recovery
6. Windows Artifacts
7. Presentation of Findings

ITEMS PROVIDED TO STUDENTS

BCFE Training
Entry into the CFCE Certification process
BCFE Training Instruction Manual (750+ pages)
Laptop
Full 12-month license for Forensic Explorer

For additional training information, visit:

- https://www.iacis.com/bcfe-basic-computer-forensic-examiner-australia/
- https://mcaa.com.au/workshop/

EVENT DETAILS

- Karstens, 123 Queen Street, Melbourne, Australia
- AUD $6,000 plus GST
- 14-25, October, 2024
- For more details, contact info@mcaa.com.au

WORLD LEADERS IN DIGITAL FORENSICS TRAINING AND CERTIFICATION
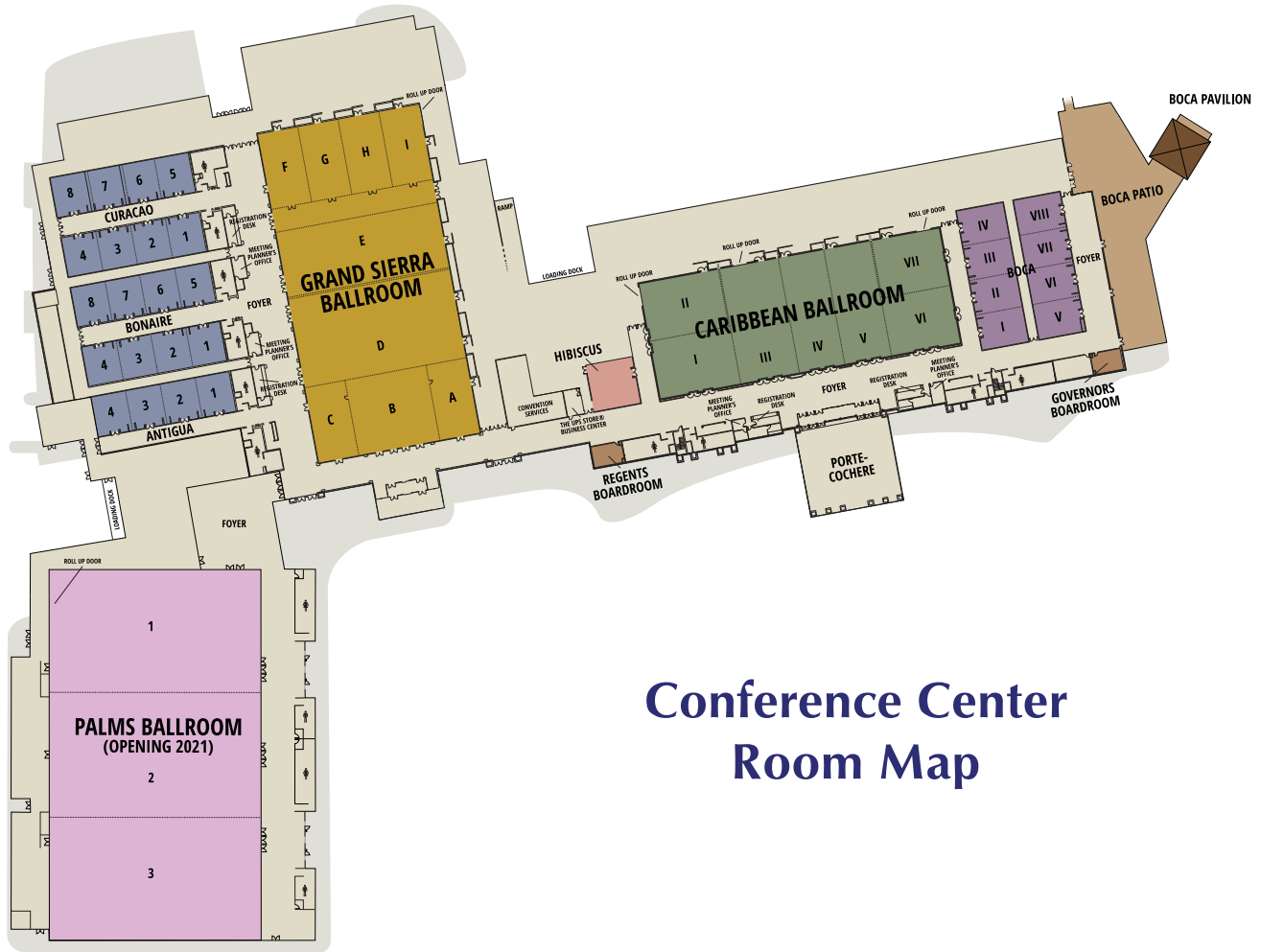
Conference Center Room Map

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University College Dublin

MSc in Forensic Computing & Cybercrime Investigation

This is a part-time distance learning education programme for law enforcement, with annual exams in the USA, Canada, the Netherlands and Dublin, Ireland. Over the past 16 years, 1500 people from 72 countries have studied for this MSc, many of them IACIS members.

RPL application fee waiver for IACIS members

Members who apply to start this programme in September 2024 and wish to apply for Recognition of Prior Learning (RPL) credits after they have been accepted onto the programme, will not be charged the RPL application fee (€60). RPL is where a student applies to have prior learning, professional certifications and/or work experience considered in order to obtain a reduction in the credits that are normally required to complete a UCD MSc. Please note that IACIS membership, courses or certifications do not guarantee acceptance onto the UCD MSc, or RPL credits or exemptions. RPL credits do not give any reduction on the UCD MSc course fees - the benefit is in reduced study workload to complete the MSc. Further information on the UCD MSc in Forensic Computing & Cybercrime Investigation at www.ucd.ie/cci

www.ucd.ie | Belfield, Dublin 4, Ireland | T: +353 1 716 7777

IACIS is truly an International Association and accepts memberships from countries worldwide. Current membership in IACIS includes over 60 different countries from all over the globe.

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IACIS

CYBER INCIDENT FORENSIC RESPONSE TRAINING

IACIS is a non-profit, volunteer organization wholly dedicated to training, certifying and providing membership services to computer forensic professionals around the world.

CIFR COURSE DETAILS

OVER 30 HANDS-ON ACTIVITIES, INCLUDING:

- A full day on using Linux command line for log analysis
- Local and network-based RAM capture
- RAM analysis with Volatility3
- Compromised Linux image analysis
- Windows analysis with multiple tools
- Velociraptor deployment and analysis
- Windows analysis with KAPE and Axiom
- CTF Exercises

ITEMS PROVIDED TO STUDENTS

CIFR Training Instruction Manual
Lab manual
Mastering Windows Network Forensics and Investigations book
Practical Malware Analysis book
Axiom 60 day license
Laptop

EVENT DETAILS

📍 Karstens, 123 Queen Street, Melbourne, Australia

💲 AUD $6,000 plus GST

📅 14-25, October, 2024

✉️ For more details, contact info@mcaa.com.au

For additional training information, visit:
- https://www.iacis.com/cifr-cyber-incident-forensic-response-australia/
- https://mcaa.com.au/workshop/

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Florida Graphic Printing Co.	Mark Baker	Sherry Torres

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Autographs
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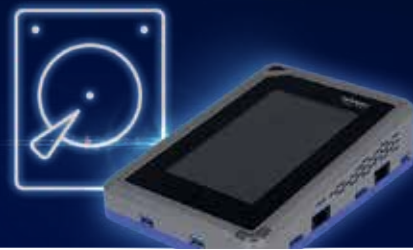
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Volunteers form the very heart and soul of IACIS, embodying our commitment to excellence and innovation. At every turn, they infuse our training events and certification programs with their expertise, passion, and unwavering dedication. We're privileged to welcome professionals from all walks of life, each contributing their unique talents to our collective success.

Discover the inspiring stories behind these extraordinary individuals and what drives them to continually elevate our organization by visiting our captivating gallery of volunteers at **https://www.iacis.com/humansofiacis/**

Eager to become part of our dynamic and purpose-driven community? Reach out to us at **volunteering@iacis.com** today, and let's embark on this incredible journey together!

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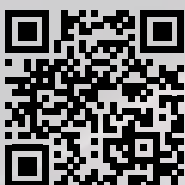
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