



Filling the Cybersecurity Skills Gap



Irish Management Institute
03/10/18 8.00am - 1.00pm

Opening Session

8.30am

- Seán Kyne TD, Minister of State for Digital Development at the Department of Communications, Climate Action and Environment
- Carmel Somers, IBM, Chair of the Cybersecurity Skills Initiative (CSI)
- Una Fitzpatrick, Director, Technology Ireland
- Paul Healy, CEO, Skillnet Ireland

Facing the Challenge

9.30am – 10.30am



Where's the Risk? Examining the Threat Landscape

Brian Honan, CEO, Irish Reporting & Information Security Service

Brian Honan is recognised as an industry expert on information security providing consulting services to clients in various industry segments. In 2008 he founded the Irish Reporting and Information Security Service (IRISS www.iriss.ie) which is Ireland's first CERT (Computer Emergency Response Team). He will address the current state of the cybersecurity threat for industry and suggest ways in which a broad based skills initiative can help in reducing the impact of cyber crime.



Criminals Follow the Opportunities – Big or Small

Detective Supt Michael P Gubbins, Head of the Garda National Cyber Crime Bureau

Detective Superintendent Gubbins estimates that less than 5 per cent of cyber crime is reported in Ireland. "Ransomware is rampant but people don't report cyber attacks," he says. With one third of Irish and Northern Irish businesses suffering a data security breach in 2017 the threat to every business is significant and immediate.

Creative Ways to Fill the Skills Gap

10.30am – 11.30 am



Build from the Inside Out

James B Alvilhiera, World Wide Sales Leader & Cyber Security Expert, IBM Watson Talent

Rather than trying to fill vacancies with new hires solving cybersecurity talent shortages with internal mobility is seen as a more viable option with better long-term returns. People from non-technical and non-cybersecurity backgrounds could bring new perspectives to what is as much a people problem as a computer one. Bringing people with broad business backgrounds into the security team strengthens team performance. The concept of lateral mobility is being replaced by the concept of career constellation based on experience, exposure, education and environment. Jim Alvilhiera is a thought leader in this space and will highlight successful examples of how this new concept is working in practice.



Challenges for Higher Education in delivering on the cybersecurity skills agenda

Dr Anthony Keane, Head of School Informatics and Computing, IT Blanchardstown

Higher Education Institutions face many challenges in keeping pace with the rapidly changing technology-dependent industries. This talk will focus on the Cyber Security industry and show how many HEIs are adapting in this area to address the needs of businesses for a skilled graduate workforce.



Using the Power of e-learning

Richard Harpur (with Mark Whyte VP of Commercial Sales EMEA for Pluralsight.)

Richard is Chief IT Risk Manager at FEXCO and an experienced technology leader as CEO, CIO, and CISO. He is highly rated as an author for Pluralsight courses in cybersecurity skills.

AI is the future of Cybersecurity for Better or Worse!

12.00noon – 1.00pm

Panel Discussion

AI is being used to defend and attack cyber infrastructure. It offers the criminal scalability - the number of ways hackers can get into a system. But it also offers ways to defend against attack that are faster, smarter and better than humans. It's important for business leaders to understand how the future with AI will dramatically change what we focus on and how we manage cybersecurity.

Panel Moderator: Paul Hearn, Editor TechPro

Panel Members:

Robert McArdle, Senior Threat Researcher, Trend Micro

Robert McArdle is a senior threat researcher for cyber security giant Trend Micro, involving analysis of the latest cybersecurity threats as well as assessing the future threat landscape. McArdle also lectures in malware analysis and cybercrime investigation at Cork IT and University College Dublin. He is a regular speaker at national and international security events and a respected industry blogger on the Trend Labs Security Intelligence blog.

Padraig O'Brien, Engineering Director and Site Lead Dublin R&D facility, Vectra

Padraig O'Brien is an engineering director at Vectra, the cybersecurity firm, and heads up their research and development facility in Dublin. O'Brien leads a team that develops innovative software that is transforming cybersecurity with AI. Prior to Vectra he held DevOps leadership and practitioner roles in wide range of organisations, from start-up to international financial institutions. He is a graduate of Cork Institute of Technology, where he earned a BSc in computer applications.

Integrity360 – Cylance and FireEye partner

Integrity360 is an Irish partner of next-generation cybersecurity vendor Cylance, and FireEye. The award-winning cybersecurity provider has served the Irish market for more than 10 years, and is a past Deloitte Fast 50 and Tech Excellence awards winner.

WORKSHOPS

Workshop A: 11.00am

Cybersecurity Primer for CEOs – What to know so you know what to do

Companies are either too confident or underprepared to deal with security breaches and cyber attacks – and these can cause enormous damage. One third of Irish and Northern Irish businesses suffered a data security breach last year, causing damage to their businesses.

An overwhelming majority (93%) of companies believe the complexity of threats they will face over the next 12 months will increase and nearly half (46%) admit they will either struggle to deal with this or that threat defence will be impossible.

Irish companies mirror the global picture reporting a surge in requirements for enhanced cybersecurity due to increased regulation on data privacy (GDPR) cited by 73% of respondents to a Deloitte study, more sophisticated scamming and phishing (59%), and growth in identify theft (53%).

This workshop will explore –

- Why cybersecurity is a business issue not just an IT issue
- Necessity of investing in security awareness training
- What cybersecurity technologies to deploy
- Cost-benefit analysis of investing in cybersecurity prevention measures
- Outsource or build in-house capability
- Encouraging vulnerability reporting by staff at every level
- How to manage recovery after an attack and adapt future processes
- Risk of being too slow to detect and respond

Target Group: C-level executives, managers, and owners and managers of small and medium companies.
Any sector – any size.

Workshop B: 11.00am

Risk Assessment for companies

Understand, list, assess, grade and plan how to fix cybersecurity vulnerabilities

Most computer defences are so weak and poorly managed that they can be relatively easily breached. But if individuals and organisations took some simple steps, they could quickly and dramatically reduce the impact of cyber crime. The problem for most companies is the absence of real accurate and meaningful data to make good decisions. Because of this some organisations may be applying resources in the wrong places to defend against the wrong threats. Without an analysis of how well the organisation is geared to defend against breaches we cannot implement remedial actions or make good management and investment decisions.

This workshop will explore these issues and use a struc-

tured tool to enable participants make an initial assessment of their cybersecurity preparedness. This is a tailored example that gives a flavour of what is involved in risk assessment. It will examine areas as complex as cloud security and business continuity management after a breach, down to issues like Passwords, Patching: Phishing, Protecting against Ransomware and Malware, Device Configuration, Backups and having an effective Business Continuity Plan.

The aim is to help participants identify any weakness in your defensive strategy and operational procedures and maximise the chances of effective recovery from a disaster.

Target Group: C-level executives, managers, owner-managers, practitioners and technical staff with ICT responsibilities. Any sector – Any Size.

Workshop C: 9.30am – 12.30am

Capture the Flag

Become a Cyber Hacker for a Morning!

Teams of 4 'greenhorns' (non-cybersecurity specialists) from different companies competing to defend against cyber attacks in real time.

This session running continuously over three hours (with unlimited coffee!) in the main Conference Hall will introduce complete beginners to cyber hacking. They will learn how to hack a website, break into servers and steal computer files. Capture the Flag is a fun and safe environment to learn what hackers do and the tools they use. It will also demonstrate how vulnerable computer technology is and help

participants to become more aware and skilled at securing and defending against attacks.

Participants will be formed into teams of 4 which are posed a series of problems that increase in difficulty. Teams attempt to earn the most points, but do not directly attack each other. Rather than a race, this style of game play encourages taking time to approach challenges and prioritise the quantity of correct submissions.

Target Group: The workshop is aimed at non-security technicians. A company may send their own team of 4 participants. If you have less than four then your participant(s) will be teamed up with participants from other companies. No cybersecurity skills are required – in fact we really do want 'greenhorns' with no prior cybersecurity skill, so anyone with basic computing knowledge (how to surf and search, etc) and who enjoys solving puzzles will be welcome. All that is required is to bring your own laptop. You must pre-register and you will then be given some online examples to look at before you come. The top 3 teams will be awarded prizes.

Contact

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Technology Ireland ICT Skillnet is co-funded by Skillnet Ireland and member companies. Skillnet Ireland is funded from the National Training Fund through the Department of Education and Skills.



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