

Minutes of the May 30, 2012 EDTF – CIE Subgroup meeting

Room 206, 40 Sheppard Ave. West, Toronto

Participating: Roger Jones, George Comrie, Jim Finch, Tyson Macaulay, Colin Cantlie (t/c), Ian Marsland (t/c), Jordan Max (staff advisor)

Regrets: Corneliu Chisu, Peter DeVita, John Clark, Alana Lavoie

The meeting started at 7:10 pm.

1. Approval of Agenda

The agenda was reviewed without amendment. Motion to approve: Jim/Roger – passed.

2. Approval of April 25th, 2012 meeting minutes and follow up on action items

The draft April 25th minutes were reviewed without amendment. Motion to approve: Tyson/Jim – passed.

Regarding the follow up on action items, George reported he had nothing to report on the Use of limited licence, PSC Draft Terms of Reference for practice guideline, and Labour Market Research. George also reported that the Etobicoke Chapter Event on Cyber Insecurity was held on May 24th and was successful. He has posted the two slide presentations in Central Desktop.

Tyson noted he had recently posted a response to a federal RFP related to educational backgrounds, and that the federal government department was willing to consider alternative equivalent education, including certifications and courses. This led to a discussion about the Limited Licence. Roger suggested that protocols for the use of the Limited Licence should be the same for:

- the CIE and NME disciplines,
- licensing under the repeal of the Industrial Exception,
- the PSC's Industry Sub-committee (terms of reference being written), and
- PEO's liaison with the Society of Manufacturing Engineers regarding SME member compliance under the "Take Back Manufacturing" initiative.

Some of the policy questions that should be addressed in the Phase 2 report should include whether there should be a foundational educational requirement, as well as whether the Limited scope was to continue to be applicant-determined or PEO-(ARC/ERC) determined. George noted that Council policy was for all Limited licence applicants to be interviewed by ERC.

3. Stakeholder Consultation

George reported that he had met with CIPS Ontario' President, Jerry Gaertner, who was interested in ongoing dialogue with PEO on CIE. It may be useful to pay attention to certifications like CISSP (which includes 4 years of prior experience) for limited licences, and of having security clearance as evidence of "good character". Regional Stakeholder Events (Ottawa, GTA, Waterloo) are still pending for the fall, but no firm plans have yet been made. There is an upcoming ITAC Cyber Security Forum on June 12th in Ottawa that Tyson is going to attend, which will focus on Common Criteria – guest presenter is Jim Robbins, who recently testified to the Senate Hearings that Canada is moving away from Common Criteria certifications for vendors products, in-line with a similar US move; however, Canada is proportionately more dependent on these certifications than the US (which has more internal security skills to mitigate the loss of the certification controls). Meanwhile, the Europeans are maintaining standards support for CC.

4. 2012 Work Plan and Staffing Plan

The subgroup reviewed the status of the current Phase 2 report. Colin has recently submitted section 9.7 (Complaints & Discipline) and Jim has revised Section 3, but there was not enough time to review the new content. There was a short discussion on adding more content in section 7 on the security and knowledge implications of IPV6. Changes to the Status Report were made (see appendix to these minutes).

5. Next Meeting Dates

Next meeting dates were set as Tuesday, June 19 and Wednesday, July 18, both from 6-9pm. The primary focus of those meetings should be on completing the Phase 2 report draft to meet the September Council meeting timelines.

6. Adjournment

The meeting was adjourned at 9:45pm.

Section	Possible Sources for Content	Assigned author	Status
1. Purpose of report	Phase 1 report: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/10009737/ September 2011 Council briefing note	Peter	pending
2. Executive summary	Phase 2 report	George	pending
Public interest issues – cybersecurity – external threats			
<ul style="list-style-type: none"> a. General public safety b. business interest – e.g. 7 types of liability insurance, cyberliability ins for engineers 	<p>Tyson’s draft section https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/11947143/</p> <p>World Economic Forum – 2012 – Partnering for Cyber Resilience https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/16348488/</p> <p>Chapter 2 of Building Capacity in Cyber Security report – Conference Board of Canada The Scope of Cyber Threats: Consequences of Digital Dependency https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/14998253/</p> <p>Rotman-TELUS Study of IT Security Practices: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/13990222/</p> <p>Amazon’s Wikileaks Cloud vulnerability: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/13071032/</p> <p>Council position statement (CIE Rationale):</p>	Jim	drafting

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	https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/15006471/		
Stakeholder analysis			
a. who we talked to and what we learned	Stakeholder feedback report https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/13108206/ Append GRC's reports?????	George/ Jordan	drafted
Profile of the CIE industry and practitioners			
<ul style="list-style-type: none"> ICTC research? ITAC research? Gov't of Ontario info 	ICTC report – outlook for ICT sector 2011-16 https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/13203045/	George	Pending
<ul style="list-style-type: none"> No standards on hiring for this type of work 	Department of Homeland Security report on IT skills https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/13993491/ Yankee Group report on Training Needs for Networks: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/12776115/	Tyson	Drafted
<ul style="list-style-type: none"> CSEC – cpsa – need stream 1 qualifications – post-sec, security, 15 yrs exp. 	CSEC response https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/15437634/ CPSA Stream 1	Tyson	Drafted
<ul style="list-style-type: none"> network vs. security silos 	???? MGS/CIRA, education system, org units	George	Pending
External regulatory landscape			

Section	Possible Sources for Content	Assigned author	Status
<ul style="list-style-type: none"> federal – legislation, jurisdiction, updates 	<p>Phase 1 report: pp.23-25</p> <p>https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/10009737/</p> <p>US National Cybersecurity Initiative: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/10555325/</p> <p>Canada-US Border Action Plan: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/13798600/</p> <p>Shared Services Canada: http://business.financialpost.com/tag/shared-services-canada/</p> <p>Public Safety Canada’s Cyber Security Strategy: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/10552557/</p> <p>Add C-28 Canadian Anti-spam law (CASL) http://fightspam.gc.ca/eic/site/030.nsf/eng/home</p>	Colin	Pending- July
<ul style="list-style-type: none"> EU/US descriptions? Senate bill 773 CISPA 	<p>EU???? Council of Europe Convention on Cybercrime https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/doc/10555403/</p> <p>CISPA: http://www.pcworld.com/printable/article/id,253800/printable.html</p> <p>Phase 1 report reference, updated on THOMAS http://www.govtrack.us/congress/bill.xpd?bill=s111-773&tab=related</p> <p>UK Cybersecurity strategy (2009/2011): https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/10555288/</p>	Tyson	pending

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	2011 version: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/16062768/ Australia Cybersecurity strategy (2009): https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/10555228/		
<ul style="list-style-type: none"> US SEC – formal guidance to disclose cyber breaches to public 	SEC news article https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/15721127/	Tyson	Pending
<ul style="list-style-type: none"> Insurance industry – cyber liability (Parking here for now) 	Consulting Engineers Ontario news article: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/15721032/ Got Cyber Insurance? Article https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/15505337/ Engineers could be liable for cyber hacking article: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/15721032/	George	Pending
7. External (industry) standards	ISO 27001 etc. https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/15554130/ Phase 1 report – CISCO etc. New cloud certification: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/13083487/ ISEA 3402 – international service assurance audit standard replacing the venerated SAS70 / CICA 5970	Tyson	Drafted

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	ISO Standard for Vulnerability Disclosure	Tyson	pending
CIE industry emerging operational models			
a. Communications	Introduction of Ipv6 and the evolution of flatter networks with huge address ranges. Add security and knowledge implications	Tyson	Drafted
b. M to M – e.g. utility association (mentioned in phase 1 report) – embedding a Comm.. Network to points of use	Phase 1 report: (NERC page 26) https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/10009737/ /	Tyson	Drafted
c. Smart Grid – (privacy) – NERC,	MIT Future of the Grid report: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/doc/16056892 OSPE Report on Wind and the Grid	George	Pending
d. cloud computing	Rise of the Cloud article https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/13071031/ Bell Canada Cloud Security paper <will upload to central desktop>	Tyson	Drafted
PEO Regulatory issues			
• Draft definition Scopes of practice	Draft CIE Scopes of Practice: https://engineersontario.centraldesktop.com/emergingdisciplinestaskforce/file/15737564/	Peter	Drafted
• Licensure & registration – Academic	Engineers Canada (CEQB) statement on CIE	Ian	Drafted

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requirements, experience requirements	NME Phase 2 report: (pp. 25-32) https://engineersontario.centraledesktop.com/emergingdisciplinestaskforce/file/15668878/		
• First licencees	Pre-existing and first batch of CIEs	Peter	Pending
• limited licence	NME Phase 2 report (pp.26-7, 32)	George	Pending
• Professional guidelines & standards	NME Phase 2 report (pp. 33-34); draft TOR for PSC subcommittee	Roger	Pending
• Enforcement (Compliance) considerations and proposals	NME Phase 2 report (pp. 34-5)	Jordan	Drafted
• Complaints & Discipline Concerns	???? Generic description/criteria for disciplinary action/standard of practice	Colin	Drafted
• Legislation	????		
10. Communications and Public Education Plan	September 2011 Council briefing note, Phase 1, 2 reports, Software Engineering Task Force final report? https://engineersontario.centraledesktop.com/emergingdisciplinestaskforce/file/3853900/	Connie Mucklestone/ George	Pending
11. Final recommendations	Summary of all Phase 2 section recommendations	Jordan	Pending
12. Future work	???? – Legislation?		Pending
Appendix A - list of stakeholders – include	Stakeholder list	Jordan	Pending

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reports			