



Factsheet 2018

WG 11.8

Information Security Education

Introduction

(Strategic issues / questions: Introduction and mission statement)

Working group 11.8 was established in 1991.

Aims / goals (last revised / reconfirmed 08-2018)

(Strategic issues / questions: What does the TC address, what does it want to achieve)

To promote information security education and training at the university level and in government and industry.

Scope (last revised / reconfirmed 08-2018)

(Strategic issues / questions: What are the groups of people the working group focuses on (see list of option in annex c), what are the boundaries of the work area)

The scope of the working group shall be to:

- establish an international resource center for the exchange of information about education and training in information security.
- develop model courses in information security at the university level.
- encourage colleges and universities to include a suitable model course in information security at the graduate and/or undergraduate level in the disciplines of computer science, information systems and public service.
- develop information security modules that can be integrated into a business educational training programme and/or introductory computer courses at the college or university level.
- promote an appropriate module about information security to colleges and universities, industry and government.
- collect, exchange and disseminate information relating to information security courses conducted by private organizations for industry.

- collect and periodically disseminate an annotated bibliography of information security books, feature articles, reports, and other educational media.

The target groups WG 11.8 mainly focuses on are:

Individuals

- Members of IFIP member societies
- Members of non-member societies
- Academic education
- Researchers (in academia)
- Practitioners

Organizations

- IFIP member societies
- Non-member societies
- Government bodies (specification desirable)
- Universities / “technikons” / training institutes
- Commercial companies

Products / activities (last revised / reconfirmed 08-2018)

(Strategic issues / questions: What are the products and activities the working group will deliver (see list of options in annex d))

IFIP conferences:

- Annual working conferences - WISE (World Conference on Information Security Education) (includes proceedings, printed and / or electronically) *[At the 2017 WG11.8 AGM it was requested that the bi-annual conference run annually instead of bi-annually as previously done]*
- Workshops (includes proceedings, printed and / or electronically) on the basis of the SEC conferences.
- Summer and Winter Schools “European Intensive Programme on Information and Communication Systems Security” (IPICS) (includes lectures, printed and / or electronically)

Membership rules (last revised / reconfirmed 08-2018)

(Strategic issues / questions: Membership rules)

Members of the Working Group are expected to be either qualified researchers or practitioners (professors, instructors, assistants and so on) in information security education. Members are nominated by the Chair and subject to IFIP approval.

Members are expected to participate actively in Working Group activities. At a minimum, active participation means presenting a paper or taking an active role in the organization of a meeting at least once every three years (i.e., a three-year period of inactivity is taken to indicate that the member is no longer actively interested in this technical area and can be cause for dropping the member from the roster).

Annex a. Membership

- **Officers, current**

Chair:	Lynn Fatcher, South Africa	2 nd	3-year term, November 2017 – October 2020
Vice-chairs:	Natalia Miloslavskaya, Russia	2 nd	3-year term, November 2014 – October 2020
	Erik L. Moore, USA	2 nd	3-year term, November 2014 – October 2020
Secretary	Matthew Bishop, USA	2 nd	3-year term, November 2014 – October 2020

- **Officers, history**

Harold Highland		Chair	1991 – 1995
Louise Yngstrom	Sweden	Vice-chair	1993 – 1995
		Chair	1995 – 2001
		Vice-chair	2001 – 2004
Helen Armstrong	Australia	Vice-chair	1995 – 2001
		Chair	2001 – 2005
Daniel Ragsdale	USA	Vice-chair	2000 – 2005
		Chair	2005 – 2008
Lynette Drevin	South Africa	Secretary	2001 – 2003
Ronald Dodge	USA	Secretary	2005 – 2008
		Secretary	2008 – 2011
		Chair	2011 – 2014
Natalia Miloslavskaya	Russia	Vice-chair	2005 – 2008
		Vice-chair	2008 – 2011
		Vice-chair	2014 - 2017
		Vice-chair	2017 - 2020
Lynn Fatcher	South Africa	Vice-chair	2005 – 2008
		Vice-chair	2008 – 2011
		Secretary	2011 – 2014
		Chair	2014 - 2017
		Chair	2017 - 2020
Colin Armstrong	Australia	Chair	2008 – 2011
Kara Nance	USA	Vice-chair	2011 – 2014
Matt Bishop	USA	Secretary	2014 - 2017
		Secretary	2017 - 2020
Erik Moore	USA	Vice-chair	2014-2017
		Vice-chair	2017-2020
Simone Fischer-Huebner	D and Sweden	Secretary	

- **Membership list (active at present based on participation in last 3 WISE conferences)**
Highlighted names added based on WISE10 contribution as author or PC member.

Armstrong Colin
Armstrong Helen
Ayers Carleton (Duke)
Bada Maria
Bell Anna-Marie
Bergmann Clemens
Bishop Matthew
Blažič Borka Jerman
Borza Roland
Botha Reinhardt
Burley Diana
Buck Scott
Caelli William
Canova Gamze
Chien-Chung Shen
Clarke Nathan
Costas Lambrinoudakis
Dahab Ricardo
Dai Jun
Dark Melissa
Denning Tamara
Dodge Ronald
Drevin Lynette
Edgar Weippl
Ekstrom Joseph
Fulton Steven
Furnell Steven
Futcher Lynn
Gallo Roberto
Gcaza Noluxolo
Gerber Mariana
Gibson David
Goldrich Luanne
Goodman Seymour
Gritzalis Dimitris
Gunther Pernul
Hawthorne Elizabeth
Hay Brian
Hedbom Hans
Herkanaidu Ram
Hoffman Lance
Irvine Cynthia
Janchevski Lech

Jonsang Audun
Jonsson Erland
Kalathur Suresh
Kallioniatis Christos
Katos Vasilis
Katsikas Sokratis
Kaza Siddharth
Kogos Konstantin
Kritzinger Elmarie
Kruger Hennie
Lambrinouidakis Costas
Likarish Dan
Leonardo Martucci
Levy Yair
Likarish Daniel
Linger Rick
Lopez Javier
Mabece Thandolwethu
Martucci Leonardo
Mattord Herb
Matyas Vashek
Migalin Anton
Miloslavskaya Natalia
Mjolsnes Stig
Moore Erik
Murthy Narayan
Nance Kara
Ngambeki Ida
Nico Phillip
Nurse Jason
Odegaarl Marte
Oftedal Erlend
Olimid Ruxandra
Ophoff Jacques
Parrish Allen
Patel Ahmed
Peiser Sean
Pernul Gunther
Primož Cigoj
Qu Yanzhen
Raina Sagar
Rannenburg Kai
Reid Rayne
Rieder Carlos

Reinhard Posch
Reinheimer Benjamin
Rosenberg Tim
Schaumuller-Bichl Ingrid
Schou Corey
Schweitzer Dennis (Dino)
Sergey Nagibin
Sergey Zapechnikov
Siddharth Kaza
Sitnikova Elena
Slay Jill
Steyn Tjaart
Stainov Rumen
Stallard Tye
Stockhardt Simon
Taylor Blair
Tenberg Ralf
Theocharidou Marianthi
Thomson Kerry-Lynn
Tolstoy Alexander
Uebelacker Sven
Vasileiou Ismini
Van Niekerk Johan
Vladimir Budzko
Volkamer Melanie
Von Solms Rossouw
Wetzel Susanne
Weippl Edgar
Wolthusen Stephen
Yekela Odwa
Yngstrom Louise
Zapechnikov Sergey
Zhu Minghua
TOTAL = 120 members

- **WG & WISE Founders (history)**

1. Peter Fillery, Australia (suggested the acronym WISE after the 1996 workshop)
2. Guy Gable, Singapore University
3. Stewart Lee, Canada
4. Lech Janczewski, NZ
5. Avraham Hayma, Israel
6. Eduardo Perez, Sweden
7. Graeme Slatterly, Australia

8. Stewart Kowalski, Sweden
9. Alison Anderson, Australia
10. Reinhart Posch, Austria

- **WG11.8 events participants**

<i>Country</i>	<i>Name</i>	<i>Events participation</i>	<i>Event Code</i>
Australia	Armstrong Colin	1, 2, 3, 5, c, d, 6, 7	
	Armstrong Helen	1, 2, 3, 5, c, d, 6, 7	
	Anderson Alison	2	
	Caelli Bill	2, 8, 9, 10	
	Hutchinson Bill	2, 3	
	Lock Phillip	2, 4, 5	
	Quirchmayr Gerald	1, 2	
	Sitnikova Elena	8	
	Slay Jill	4	
Austria	Edgar Weippl	9	
	Ingrid Schaumuller-Bichl	9	
	Reinhard Posch	9	
Brazil	Gallo Roberto	9	
	Dahab Ricardo	9	
Czechoslovakia	Vashek Matyas	4	
Denmark	Mink Martin	4	
	Pimenidis Lexi	4	
	Gunther Pernul	9	
Finland	Kajava Jorma	1, 2	
	Teemupekka Virtanen	1, 2, 3	
France	Marciano Jean-Pierre	4	
Germany	Fisher-Huebner Simone	1, 5	
	Rannenburg Kai	9	
	Canova Gamze	9	
	Volkamer Melanie	9	
	Bergmann Clemens	9	
	Borza Roland	9	
	Reinheimer Benjamin	9	
	Stockhardt Simon	9	
	Tenberg Ralf	9	
Greece	Gritzalis Dimitris	4, 9	
	Kalimeri Irene	4	
	Katsikas Sokratis	1, 2, 4, 9	
	Katos Vasilios	3, 4, 5	
	Theocharidou Marianthi	4, 5, 9,10	

	Costas Lambrinouidakis	9
Ireland	Patel Ahmed	3, 4, 9
New Zealand	Janchevski Lech	c, e, 8, 9
Norway	Jonsang Audun	9
	Odegaarl Marte	9
	Oftedal Erlend	9
	Miloslavskaya Natalia	1, 2, 3, 4, a, 5, c, 7, 8 (Remote), 9, 10
	Sergey Zapechnikov	9
	Sergey Nagibin	9
	Vladimir Budzko	9
Slovenia	Blažič Borka Jerman	4, 9
	Primoz Cigoj	9
	Boshoff Ryno	d
	Botha Reinhardt	9, 10
	Drevin Lynette	1, 3, 4, a, b, 5, d, 6, 7, 9, 10
	Futcher Lynn	4, b, 5, d, 6, 7, 8, 9, 10
	Gerber Mariana	D, 8
	Grobler Marthie	d
	Hennie Kruger	A, 9
	Monk Thomas	d
	Ophoff Jacques	9
	Reid Rayne	8, 9
	Thomson Kerry-Lynn	9, 10
	Van Niekerk Johan	d, 6, 7, 8, 9, 10
	Viljoen Melanie	b, d
Von Solms Rossouw	7, 8, 9, 10	
Spain	Lopez Javier	1, 2, 9
Sweden	Davidson Alan	4, 5
	Jonsson Erland	1, 9
	Hedbom, Hans	9
	Kowalski Stewart	1, 10
	Leonardo Martucci	9
	Nackro Kjell	1
	Yngstrom Louise	1, 2, 3, 4, a, 5, d, e, 9, 10
Switzerland	Schwyter Alfred	1, 3, 4
	Reider Carlos	7, 9
Tanzania	Casmir Olifage Respickius	3, 4
UK	Clarke Nathan	3, 4, d, 9
	Furnell Steven	1, 3, 4, d, 9, 10

	Wolthusen Stephen	9
	Herkanaidu Ram	10
USA	Ayers Carleton (Duke)	7
	Baskerville Richard	1
	Bishop Matthew	3, 4, 5, 6, 7, 8, 9, 10
	Dark Melissa	9, 10
	Denning Tamara	9
	Dodge Ronald	3, 4, b, 5, 6, 7, 8, 9
	Goldrich Luanne	9
	Goodman Seymour	9
	Hay Brian	b, 7, 9
	Hentea Mariana	4
	Hoffman Lance	3, 4
	Irvine Cynthia	1, 2, 3, 5
	Kalathur Suresh	9
	Likarish Daniel	9
	Linger Rick	9
	Moore Erik	7, 8, 9
	Murthy Narayan	7
	Nance Kara	b, 7, 9
	Qu Yanzhen	7
	Peiser Sean	9
	Ragsdale Daniel	3, 4, b, 5
	Rosenberg Tim	7
	Raina Sagar	9
	Schou Corey	1, 3, 4, 9
	Chien-Chung Shen	9
	Schweitzer Dennis (Dino)	7
	Siddharth Kaza	9
Taylor Blair	7, 9	

Annex b. Workplan

- Past events / products / achievements
 - Workshop at the IFIP/Sec 1995 in Cape Town, South Africa. “Information Security Education – Current and Future Needs, Problems and Prospects, I”
 - Workshop at the IFIP/Sec 1996 in Samos, Greece, “Information Security Education – Current and Future Needs, Problems and Prospects, II”
 - Workshop at the IFIP/Sec 1997 in Copenhagen, Denmark, “Information Security Education – Current and Future Needs, Problems and Prospects, III”
 - Workshop at the IFIP/Sec 1998 on a boat on the Danube between Vienna, Austria and Budapest, Hungary, “Information Security Education – Current and Future Needs, Problems and Prospects, IV”

- WISE1, 17-19 June 1999, Kista, Sweden. 80 international and national participants. Proceedings on 303 pages, publisher – Department of Computer and Systems Sciences, Stockholm University/Royal Institute of Technology on the behalf of International Federation for Information Processing, ISBN 91-7153-910-7, edited by Louise Yngström and Simone Fischer Hubner
- WISE2, 12-14 July 2001, Edith Cowan University, Perth, Australia. 120 international and national participants. Proceedings on 332 pages publisher – School of Computer and Information Science, Edith Cowan University, Perth, Western Australia, on behalf of the International Federation for Information Processing, ISBN 0-7298-0498-4, edited by Helen Armstrong and Louise Yngström
- Summer IPICS2002 on Samos Island (Greece), July 2002
- WISE3, 26-28 June, 2003, Monterey, California, USA, international and national participants. Proceedings on 334 pages, publisher – Kluwer Academic Publishers, ISBN 1-4020-7478-6 edited by Cynthia Irvine and Helen Armstrong
- WISE4, 18-20 May 2005, 40 international participants+20 Russian participants, proceedings on 281 pages, publisher – the Moscow Engineering Physics Institute (State University), edited by Helen Armstrong and Natalia Miloslavskaya. ISBN 5-7262-0565-0
- Summer IPICS2005 on Chios Island (Greece), July 2005
- IFIP TC-11 WG 11.1 & WG 11.8 Joint Workshop on Security Culture as part of Sec2006. Karlstad (Sweden), 22-24 May, 2006
- Summer IPICS2006 in Leuven (Belgium), July 2006
- IFIP TC-11 WG 11.1 & WG 11.8 Joint Workshop on Security Culture as part of IFIP SEC 2007, 13-16 May, 2007 Johannesburg, SA
- WISE5, 19-21 July 2007, West Point US Military Academy (USA). International and national participants. Proceeding on 148 pages, edited by Lynn Futcher and Ron Dodge
- Summer IPICS2008 in Vienna (Austria), August 2008
- IFIP TC-11 WG 11.1 & WG 11.8 Joint Workshop as part of Sec2009. Pafos (Cyprus), May 18-20, 2009
- WISE6, 27-31 July 2009, Bento Goncalves, Brazil. International participants. Part of The IX World Conference on Computers in Education (IFIP). Proceeding edited by Lynn Futcher and Ron Dodge
- IFIP TC-11: Joint Workshop, 17-18 May 2010, WG 11.1 & WG 11.8 with Human Aspects of Information Security and Assurance (HAISA) and Workshop on Digital Forensics and Incident Analysis (WDFIA), Port Elizabeth, South Africa. Proceeding edited by Nathan Clarke and Steven Furnell
- Summer IPICS2010 on Samos Island (Greece), July 2010
- IFIP TC-11 WG 11.8 “Best student Paper”, for SEC2010. Brisbane (Australia), September 20-24, 2010
- WISE7, 7-9 June 2011, Lucerne, Switzerland. International participants. Part of the 26th International Information Security Conferences IFIP SEC2011. Proceeding edited by Lynn Futcher and Ron Dodge
- IFIP TC-11 WG 11.8 “Best student Paper”, for SEC2011. 7-9 June 2011, Lucerne, Switzerland
- IFIP TC-11 WG 11.8 “Best student Paper”, for SEC2012. 4-6 June 2012, Heraklion, Crete, Greece

- WISE8, 8-10 July 2013, Auckland, New Zealand. International participants. Part of the 28th International Information Security Conferences IFIP SEC2013. Proceeding edited by Lynn Fitcher and Ron Dodge
 - IFIP TC-11 WG 11.8 “Best student Paper”, for SEC2013. 8-10 July 2013, Auckland, New Zealand
 - IFIP TC-11 WG 11.8 “Best student Paper”, for SEC2014. 2-4 June 2014, Marrakech, Morocco
 - WISE9, 26-28 May 2015, Hamburg, Germany. Part of the 30th International Information Security Conferences IFIP SEC2015.
 - Summer school IPICS2015 in Lesvos (Greece), July 2015.
 - IFIP TC-11 WG 11.8 “Best student Paper”, for SEC2016. May 30th till June 1st, 2016, Ghent, Belgium.
 - Colloquium for Information Systems Security Education (CISSE) in June 2016 in Philadelphia, USA
 - Summer school IPICS2016 in Leuven (Belgium), July 2016
 - WISE10, 29-31 May 2017, Rome, Italy. Part of the 2017 International Information Security Conference IFIP SEC2017.
 - IFIP TC-11 WG 11.8 “Best student Paper”, for SEC2017. 29-31 May 2017, Rome, Italy.
- Planned events / activities
 - WISE11, 18-20 September. 11th IFIP WG11.8 World Conference. Co-located with WCC2018 and IFIP SEC2018, Poznan, Poland

Annex C List of possible target groups

Following is a list of target groups. Selecting the target group(s) should be done by each special interest group, working group, specialist group and technical committee. Each group may wish to focus on a particular (set of) target group(s). The advantage of a focussed approach is better opportunities for marketing, more possibilities for brand loyalty. Selection of target group(s) to a certain extent is linked with the selection of the possible product(s) a group wants to offer. See annex D.

A. Target groups

A.1. Individuals

- A.1.1. Members of IFIP member societies
- A.1.2. Members of non-member societies
- A.1.3. Academic education
- A.1.4. Non-academic education
- A.1.5. Teachers (differentiation into level of schools?)
- A.1.6. Trainers
- A.1.7. Researchers (in academia)
- A.1.8. Researchers (in commercial laboratories)
- A.1.9. Practitioners
- A.1.10. Auditors
- A.1.11. Management (IT management, business management)

A.2. Organizations

- A.2.1. IFIP member societies
- A.2.2. Non-member societies
- A.2.3. Government bodies (specification desirable)
- A.2.4. Universities / “technikons” / training institutes
- A.2.5. NGO’s (UN, etc.)
- A.2.6. Commercial companies
- A.2.7. Non-IT societies (e.g. professional bodies of auditors)

Annex D. List of possible products

Following is a list of possible products. Selecting the product(s) that will be offered should be done by each special interest group, working group, specialist group and technical committee. Each group may wish to focus on a particular (set of) product(s). The advantage of a focussed approach is better opportunities for marketing, more possibilities for brand loyalty. Selection of target group(s) to a certain extent is linked with the selection of the possible product(s) a group wants to offer. See annex C.

Groups are invited to “think out of the box” and look beyond the history. Investigate new challenges and don’t think, at first, about the possible problems.

B. Products

B.1. IFIP conferences (in all variations, including joint events)

- B.1.1. WCC (includes proceedings, printed and / or electronically)
- B.1.2. WITFOR (includes proceedings, printed and / or electronically)
- B.1.3. WCCE (includes proceedings, printed and / or electronically)
- B.1.4. Open conferences (includes proceedings, printed and / or electronically)
- B.1.5. Working conferences (includes proceedings, printed and / or electronically)
- B.1.6. Workshops (includes proceedings, printed and / or electronically)
- B.1.7. Tutorials (includes proceedings, printed and / or electronically)
- B.1.8. Schools (includes proceedings, printed and / or electronically)

B.2. Joint conferences with other organizations

- B.2.1. Similar societies
- B.2.2. Commercial organizations
- B.2.3. Government

B.3. Projects

- B.3.1. WITFOR projects (results from projects can be manifold)
- B.3.2. NGO projects (results from projects can be manifold)
- B.3.3. Government (like EU) projects (results from projects can be manifold)
- B.4. Syllabi for IT careers
- B.5. White papers on new developments / policy statements
- B.6. Annual evaluations of the state of the IT technology

- B.7. IFIP Academy
- B.8. Guidelines / best practices / codes (e.g. of ethics)