International Association for Cryptologic Research

Christian Cachin
President, IACR

Eurocrypt 2017

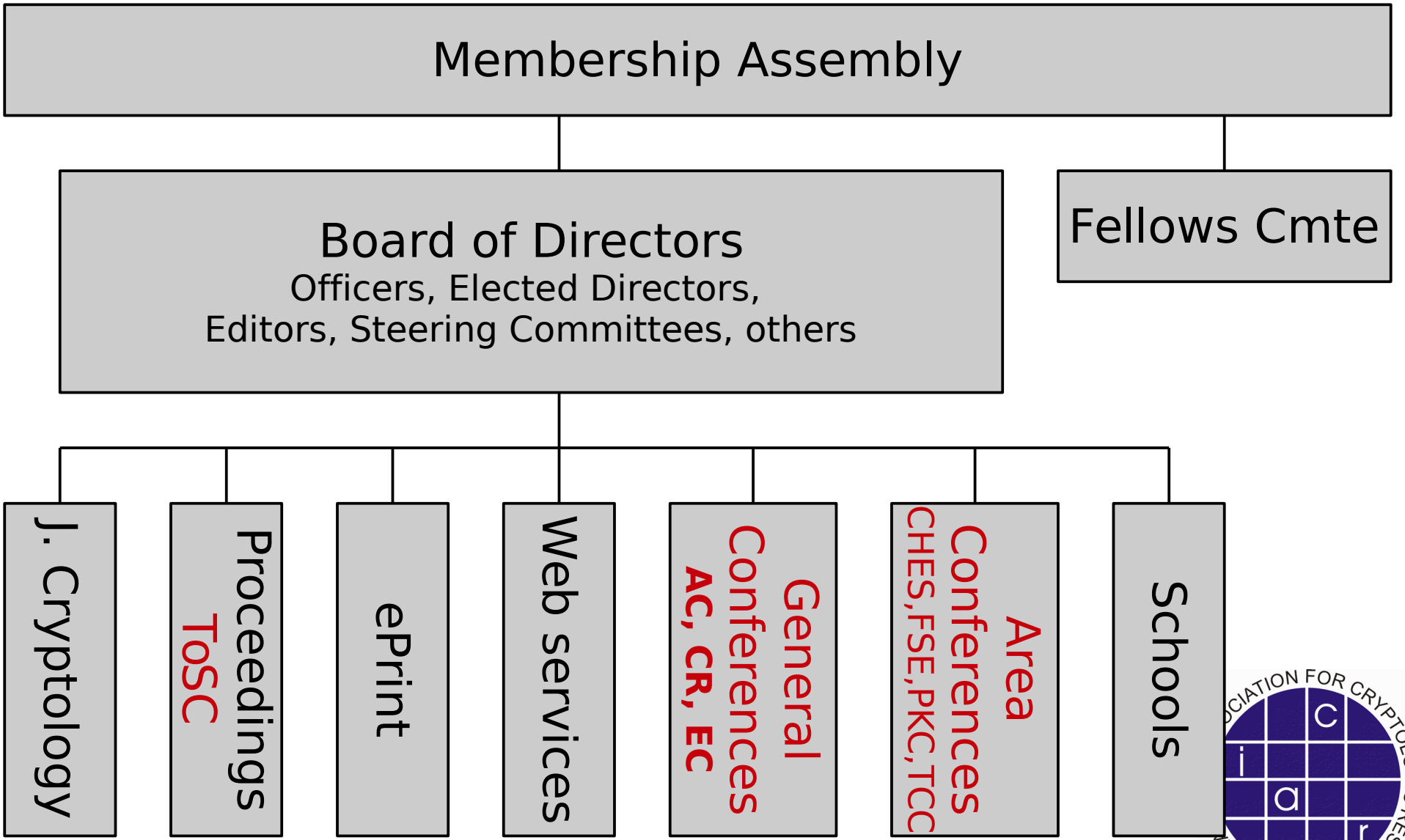
Membership meeting

- About IACR
  - Publications
  - Conferences
  - Journal of Cryptology
- Financial report
- Membership report
- Online services
- Symposium on Real-World Cryptography
- Transactions on Cryptographic Hardware and...
- Conflict-of-interest policies
- Open discussion
- Future events

IACR

- International Association for Cryptologic Research
  - Purpose is to further research in cryptology and related fields
  - 1983
  - Incorporated as non-profit organization in Nevada (US)

One picture


Membership Assembly
Board of Directors
Officers, Elected Directors,
Editors, Steering Committees, others
Fellows Cmte
J. Cryptology
Proceedings
ToSC
ePrint
Web services
General
Conferences
AC, CR, EC
Area
Conferences
CHES,FSE,PKC,TCC
Schools

Membership

- Everyone attending an IACR event becomes a member in next calendar year
- Membership fee of $50 ($25 students)
- Become a member online
- If you don't attend a conference in a calendar year, renew your membership online until September

Board of Directors

- 4 Officers
- 9 elected Directors
- Appointed Directors
  - Includes General Chairs of EC/CR/AC conferences
- Observers
  - Representing Steering Committees of Asiacrypt and area-conferences (CHES, FSE, PKC, TCC)

- www.iacr.org/bod.html

- In-person meetings at Eurocrypt and Crypto

Finanical report

- Brian LaMacchia

Membership report

- Douglas Stebila

Journal of Cryptology

- Current editor in Chief
  - Kenny Paterson
- Read online
  - www.iacr.org/publications/access.php
- Paper delivery is opt-in for $20 extra
  - When you pay yearly membership
- Online submission reviewing system

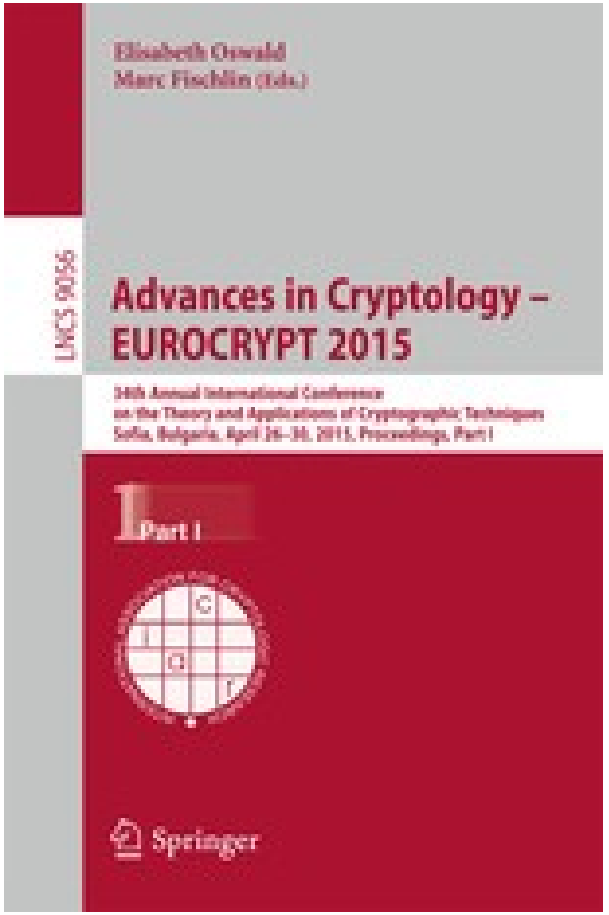
IACR Transactions on Symmetric Cryptology (ToSC)

- New in 2017, replacing Proceedings of FSE
- Journal with rapid and strict review schedule
- Online only, published by IACR & RUB library
  - tosc.iacr.org
- **Gold open access**
- Publication in ToSC gives presentation at FSE
  - Conference-journal hybrid (PVLDB, PoPETS ...)

ToSC operation

- Editors in Chief for 2017
  - Florian Mendel & María Naya-Plasencia
- Schedule
  - 4 submission deadlines/year and 4 review periods
  - Decision after approx. 2 months
    - Accept
    - Conditional accept
    - Major revision (→ must resubmit after 3 or 6 months; decision will be accept or reject, not another revision)
    - Reject (a different paper can be submitted later)
  - Papers accepted by January 20xx must be presented at FSE 20xx

Conference proceedings



- ASIACRYPT
- CRYPTO
- EUROCRYPT
- CHES
- ~~FSE~~
- PKC
- TCC

- Online for members
  - www.iacr.org/proceedings
- Online for all (> 3yr)
  - link.springer.com

Cryptology schools

- IACR reviews proposals and supports some schools each year
  - Educational, typically 1-week, learning required (Summer/Winter/Spring/Fall school)
  - Financial support for speakers etc. and publicity

- Next proposals are due December 31
  - Committee chaired by Michel Abdalla
  - www.iacr.org/schools/

IACR Fellows

IACR Fellows are outstanding IACR members, recognized for technical and professional contributions that

- Advance the science, technology, and practice of cryptology and related fields;
- Promote the free exchange of ideas and information about cryptology and related fields;
- Develop and maintain the professional skill and integrity of individuals in the cryptologic community;
- Advance the standing of the cryptologic community in the wider scientific and technical world and promote fruitful relationships between the IACR and other organizations.

IACR Fellows – 2017

- Jan Camenisch
- Louis Guillou
- Kwangjo Kim
- Christof Paar
- Kenneth G. Paterson

Nominations for 2018 Fellows due by 31 Dec.

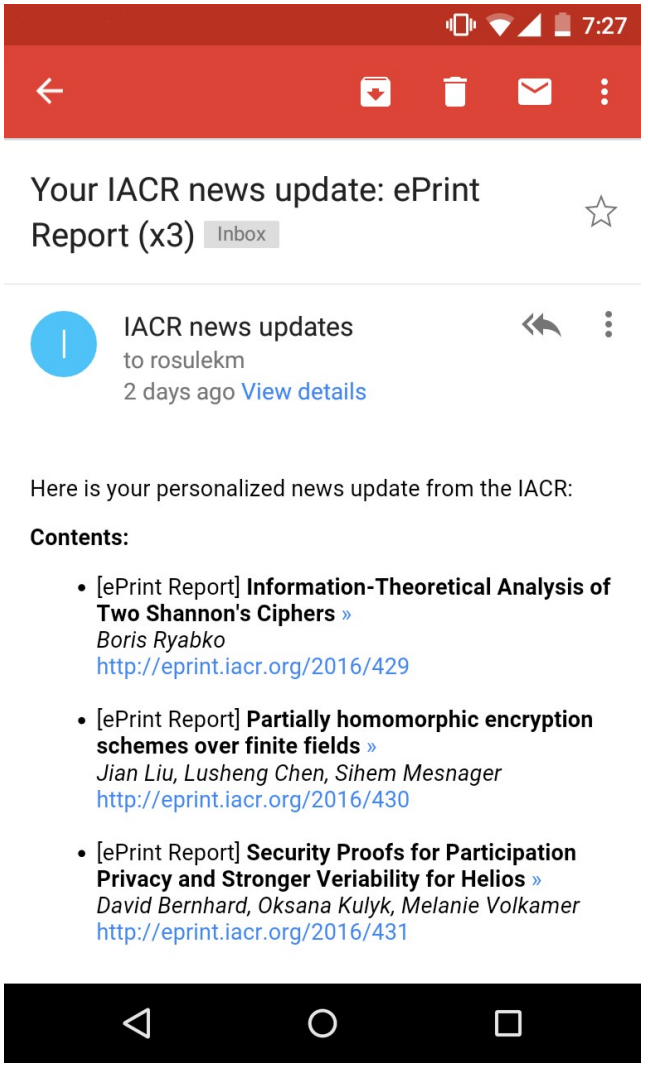
Information will be on website later in the year
www.iacr.org/fellows/

Online services

iacr.org
ia.cr

IACR news alerts

- Receive alerts about:
  - General announcements
  - New eprint reports
  - Job openings in cryptology
  - New events (conferences)
- Receive alerts via:
  - Facebook: fb.com/theiacr
  - Twitter: twitter.com/theiacr
  - Weibo: weibo.com/iacr
  - Email: iacr.org/news/subscribe



IACR publications portal

ia.cr/pubs

- Conference proceedings available:
  - all years: Springer version, IACR members only
  - after 2 years: “IACR version”, public access
  - after 3-4 years: Springer version, open access

All online services

- Cryptology ePrint Archive
- Access to proceedings (Springer & IACR versions)
- Open positions in cryptology
- Calendar of events
- Museum of historic papers
- Bibliography (CryptoDB), Petitions, PhD database ...

Cryptography Research Fund for Students

- With donation from CRI, IACR has created Cryptography Research Fund for Students
- Sponsors student participation at IACR events
  - Waive registration fee for student speakers at EUROCRYPT, CRYPTO, ASIACRYPT, CHES, FSE, TCC and PKC
  - Support for Cryptology Schools

Cryptology ePrint Archive

- eprint.iacr.org
- More than 1000 pre-prints per year
- Sasha Boldyreva & Tancrède Lepoint, editors

Videos & presentations

- Parallel sessions make it more important to have recordings

- Publication on Youtube channel
  - www.youtube.com/user/TheIACR
  - Thanks to Kevin McCurley for many hours of work!

- IACR consent & copyright form asks for permission to release
  - Video recording of talk (voice vs. full video)
  - Presentation material (static PDF)

- IACR decided in 2016 that recording and publication of video and presentation occurs by default
  - with exceptions possible

Video editor needed

- Help all General Chairs with format
- Process recordings
- Publish on current channel
- Archive for future use
- Please come talk to me (president@iacr.org)

Current topics

IACR Trans. Cryptographic Hardware and Embedded Sys.

- ToCHES, replaces proceedings of CHES in LNCS
  - Works very similar to ToSC

- Journal with rapid and strict review schedule
- Online only, published by IACR & RUB library

- **Gold open access**

- Publication in ToCHES gives talk at CHES
  - Conference-journal hybrid

- First submission deadline 15 Oct 2017

ToCHES operation

- Editors in Chief for 2018
  - Matthieu Rivan & Daniel Page
- Yearly schedule
  - 4 submission deadlines and review periods
    - 15-Apr / 15-Oct / 15-Jan / 15-Apr
  - Decision after approx. 2 months
    - Accept
    - Conditional accept/minor revision
    - Major revision (→ must resubmit after 3 or 6 months; decision will be accept or reject, not another revision)
    - Reject (a different paper can be submitted later)
  - Papers accepted by July 20xx to be presented at CHES 20xx

Symposium on Real-World Cryptography (RWC)

- Started as "Real-World Cryptography Conference"
  - Small workshop 2012, enormous growth until 2017
  - www.realworldcrypto.com

- Not another academic conference!

  - Brings together cryptography researchers with developers implementing cryptography in real-world systems.
  - Collection of invited and contributed talks

- RWC SC and IACR have agreed to join forces for
  - IACR Symposium on Real-World Cryptography

- Next RWC will be 10-12 Jan 2018, Zurich (CH)

Conflict of interest policy

- Current guidelines for IACR conference PC:
  - Editor/PC decides on what constitutes a conflict according to high standards of scientific integrity
    - Attempt to avoid conflicts of interest by not assigning submissions to friends, colleagues, students, or PhD advisors of any of the authors.
- Board has decided to revise this policy, make it more precise and more prominent

Policy CRYPTO 2017

- The following constitutes a conflict of interest
  - Colleagues from the same institution as any of the authors
  - Current or recent (< 1 year) student/advisor or postdoc/advisor relationship
  - Family member

Policy ACM CCS 2016

- A conflict (...) includes anyone with close personal or professional relationship to any of the authors, such as
  - close family members,
  - people from the same department/group,
  - and recent collaborators (e.g. collaborated on a joint paper in the last two years).
- It also includes anyone in a position of substantial influence on (or by) the authors, such as advisor or advisee (at any time in the past), line-of-management relationship, grant program manager, etc.

Principles for an IACR CoI policy suggested by Board

- A reviewer has a conflict with an author if they
  - Published joint work in the prior two years;
  - Were advisor/advisee at any time;
  - Shared institutional affiliation within the last year;
  - Are in the same family.

- Detailed document to be created, reviewed, and approved

- See also related policies
  - IEEE S&P http://www.ieee-security.org/TC/SP2017/cfpapers.html
  - ACM TOPS http://tops.acm.org/conflict-of-interest.cfm
  - ACM SIGPLAN conferences http://sigplan-pages.sigplan.hosting.acm.org/Resources/Policies/Review/

Open discussion

Upcoming events

Cryptology Schools 2017

- School on Security and Correctness in the Internet of Things
  - 8-12 May 2017, Graz (AT)
  - https://springschool.iaik.tugraz.at/
- Advanced School of Cryptography 2017 (ASCcrypto)
  - 17-19 Sep 2017, Havana, Cuba
  - http://latincrypt.matcom.uh.cu/content/ascrypto-2017

Future General Conferences

Crypto 2017, 20-24 Aug, UCSB, Santa Barbara
- Steve Myers (GC)
- Jonathan Katz & Hovav Shacham (PC)
- IACR Distinguished Lecture by Shafi Goldwasser
- www.iacr.org/conferences/crypto2017/

- Asiacrypt 2017, 3-7 Dec, Hong Kong (HK)
  - Duncan Wong & SM Yiu (GC)
  - Tsuyoshi Takagi & Thomas Peyrin (PC)
  - asiacrypt.iacr.org/2017/

Future General Conferences

- Eurocrypt 2018, 29 Apr-3 May, Tel Aviv (IL)
  - Orr Dunkelman (GC)
  - Jesper Buus Nielsen & Vincent Rijmen (PC)
- Crypto 2018, 19-23 Aug, UCSB, Santa Barbara
  - Tal Rabin (GC)
  - Hovav Shacham & Sasha Boldyreva (PC)
- Asiacrypt 2018, 2-6 Dec, Brisbane (AU)
  - Josef Pieprzyk (GC)
  - Thomas Peyrin & Steven Galbraith (PC)
  - IACR Distinguished Lecture by Mitsuru Matsui

Future General Conferences

- Eurocrypt 2019, Apr/May, Darmstadt (DE)
  - Marc Fischlin (GC)
  - Vincent Rijmen & NN (PC)
- Crypto 2019, late Aug, UCSB, Santa Barbara
  - NN (GC)
  - Sasha Boldyreva & NN (PC)
- Asiacrypt 2019, Nov/Dec, Kobe (JP)
  - Mitsuru Matsui (GC)
  - Steven Galbraith & NN (PC)

Future Area Conferences

- CHES 2017, 25-28 Sep, Taipei (TW)
  - Bo-Yin Yang & Chen-Mou Cheng (GC)
  - Naofumi Homma & Wieland Fischer (PC)
- TCC 2017, 12-15 Nov, Baltimore (US)
  - Abhishek Jain (GC)
  - Yael Kalai & Leonid Reyzin (PC)

Future Area Conferences

- FSE 2018, 5-7 Mar, Bruges (BE)
  - Elena Andreeva (GC)
  - Florian Mendel & María Naya-Plasencia (ToSC EIC)
- PKC 2018, 25-28 Mar, Rio de Janeiro (BR)
  - Ricardo Dahab (GC)
  - Michel Abdalla (PC)
- CHES 2018, 9-12 Sep, Amsterdam (NL)
  - Ileana Buhan & Peter Schwabe (GC)
  - Matthieu Rivan & Daniel Page (PC/EiC)
- TCC 2018, 12-14 Nov (tent.), Goa (IN)
  - Shweta Agrawal & Manoj Prabhakaran (GC)
  - Amos Beimel & Stefan Dziembowski (PC)

Thank you!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