

A scenic view of a forested hillside with a sea of clouds in the background. The foreground is filled with dense, green trees and shrubs. The middle ground shows a thick layer of white clouds that stretches across the horizon, creating a 'sea of clouds' effect. The sky above is a clear, light blue.

International Association for Cryptologic Research

Christian Cachin
President, IACR

CRYPTO 2015

Membership meeting

- About IACR
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- Online services
- Financial report
- Membership report
- Publications
- Parallel sessions
- **Open discussion**
- Future events

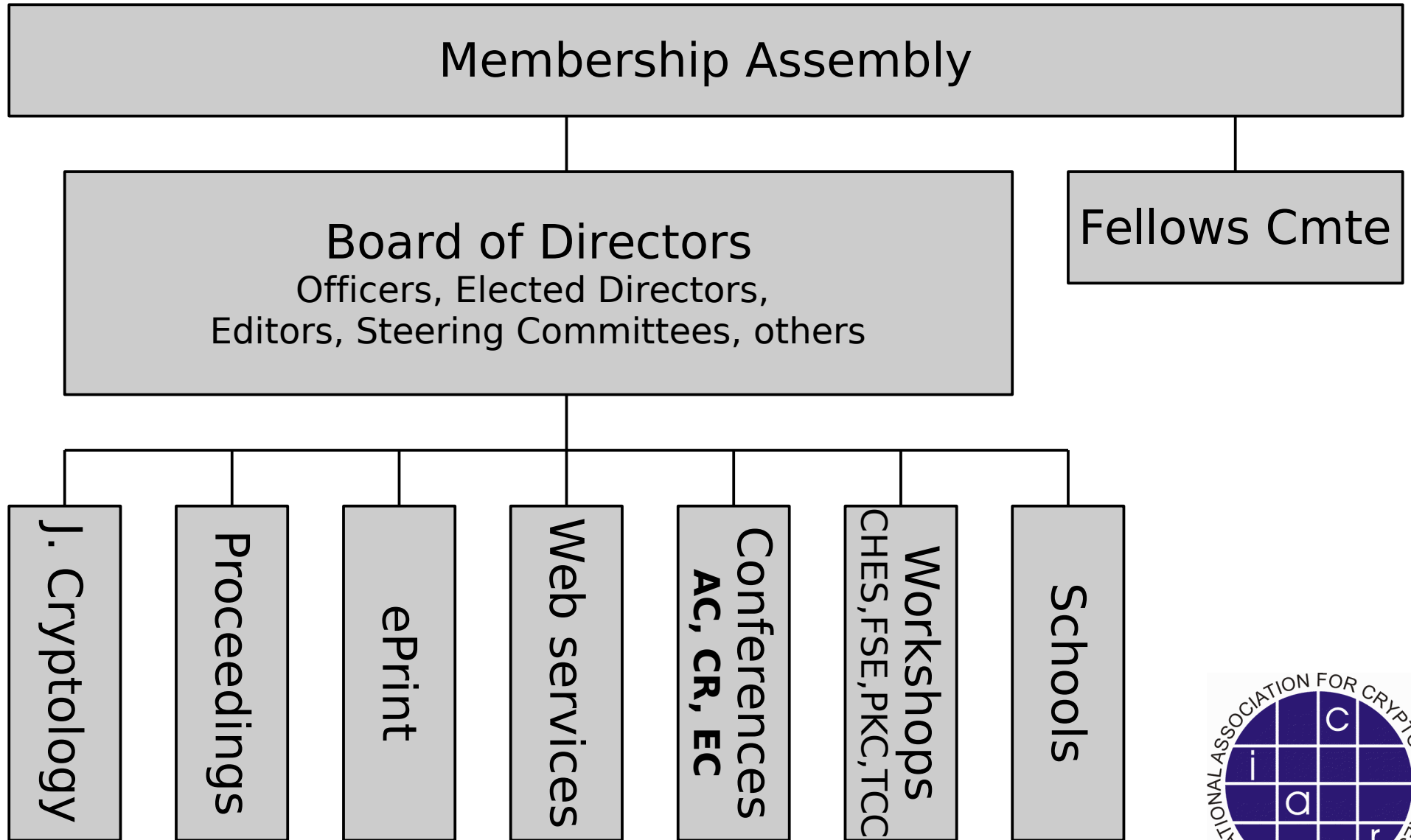


IACR

- 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

- Everyone attending an IACR event becomes a member in next calendar year
- Become a member online
- Membership fee of \$50 (\$25 students)



Board of Directors

- 4 Officers
- 9 elected Directors
- Appointed Directors and observers
- www.iacr.org/bod.html
- Election of 3 Director positions every year
 - Nomination information is online
 - www.iacr.org/elections/2015/
 - Using Helios online voting



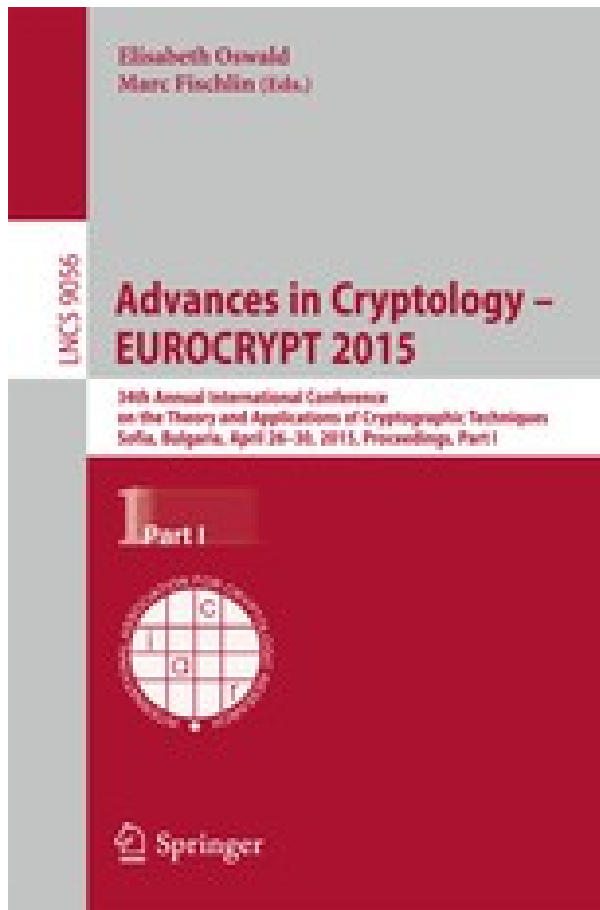
Journal of Cryptology



- Editor in Chief
 - Ivan Damgård
- Read online
 - www.iacr.org/services/springer.php
- Paper delivery is now opt-in for \$20 extra
 - Change that in your membership data online
- Online submission reviewing system



Proceedings



- ASIACRYPT
 - CRYPTO
 - EUROCRYPT
 - CHES
 - FSE
 - PKC
 - TCC
-
- Online for members
 - www.iacr.org/proceedings
 - Online for all (> 4yr)
 - link.springer.com



Cryptology Schools

- **New initiative since 2014**
- 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
 - <http://www.iacr.org/schools/>



Cryptology Schools 2015

- Summer school on elliptic curve cryptology, 23-25 Sep. 2015, Bordeaux (FR)
 - <http://ecc2015.math.u-bordeaux1.fr/>
- School on Design and Security of Cryptographic Algorithms and Devices, 18-23 Oct. 2015, Sardinia (IT)
 - https://www.cosic.esat.kuleuven.be/summer_school_sardinia_2015/index.html



Cryptology Schools 2016

- Summer School in Cryptocurrencies, Kos (GR), 30 May-2 June, 2016
 - No website yet
 - Organizers: Foteini Baldimtsi, Aggelos Kiayias, Sarah Meiklejohn



IACR Fellows

- The IACR Fellows Program recognizes outstanding IACR members 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 – 2015

- Ernie Brickell
 - Joe Kilian
 - Kaisa Nyberg
 - Tatsuaki Okamoto
 - Bart Preneel
 - Tal Rabin
-
- Nominations for 2016 Fellows due by 31 Dec.
 - www.iacr.org/fellows/



Communications

- Communications secretary and webmaster

Mike Rosulek



Yu Yu



Online services

- Find us on Facebook: [facebook.com/theiacr](https://www.facebook.com/theiacr)
- IACR news and announcements
 - www.iacr.org
 - Twitter: @IACR_News // weibo.com/iacr
- Cryptology ePrint Archive
 - [Sasha Boldyreva](#) & Nigel Smart
- Online access to proceedings
- Calendar of events
- Open positions
- Book reviews
- Ph.D. genealogy database
- Bibliography (CryptoDB)
- IACR Archive



Statements and petitions

- Petition in response to Australia's Defence Trade Controls Act
 - To be signed online by members
- New mechanism to organize petitions among members
 - www.iacr.org/petitions/
- IACR has also made a statement in support of Bimal Roy (Former head of Indian Statistical Institute)
 - Quick action taken by the Board



More volunteers needed!

- Content administration
- Video editing
- Programming
 - Familiar with LAMP?
- Contact [<president@iacr.org>](mailto:president@iacr.org)



Cryptography Research Fund for Students

- With 1 Mio. \$ donation from CRI, the IACR has created Cryptography Research Fund for Students in 2014
- Being used to sponsor student participation at IACR events
 - Waive registration fee for student speakers at EUROCRYPT, CRYPTO, ASIACRYPT, CHES, FSE, TCC and PKC
 - Support for Cryptology Schools
 - More ideas are welcome



Financial report



Membership report



Conferences and publications

- Field has grown, and still growing
- Publishing and research environment changing
 - Speed, open-access, archival publications
- Cryptography research has many dimensions
 - Practice & theory
 - Europe & Americas & Asia-Pacific
- IACR should continue to support growth and respond to current needs



Publisher

- IACR is currently re-assessing publisher for proceedings
 - Current agreement with Springer for proceedings in LNCS, can be revised after 2016
- FSE intends to become a journal-conference hybrid from 2017 onward
 - Similar to PVLDB, PoPETS, JETS
- **Re-assessment is therefore necessary**



Change in FSE publications

- Switch from LNCS proceedings to journal with green or gold open access
 - 4 submission deadlines per year and 4 review periods
 - Decision in 3 months: Accept, Reject, Revise & Resubmit (1x, within 3-6 months)
 - Papers accepted by January 20xx have to be presented at FSE 20xx
- Motivation
 - Thorough 2-round review for a journal
 - More polished submissions and final versions
 - Obtain ISI impact factor by 2020 (important for funding agencies in Europe and Asia)



Open Access

- **Green-OA**
 - Authors may publish their versions of a paper freely online (home page, eprint repositories), access to main publication is limited
- **Gold-OA**
 - Main publication is accessible freely (online)
- IACR currently has
 - Gold-OA with 4-yr embargo period
 - Green-OA (e.g., author versions on eprint archive)
- Move to Gold-OA? What cost? Who pays?



Who pays for Gold-OA?

- Cost for publishing arises at time of publication, there is no revenue in the future
- Readership of scientific literature
 - Authors (scientists, society members, conference attendees) vs.
Non-authors (patent lawyers/offices, companies...)
- Currently authors pay (library budgets) and non-authors pay (subscriptions)
- Gold-OA shifts complete cost to authors



Benefits of Gold-OA

- Final publications are available freely & openly online
 - No complex authorization
 - No confusion due to multiple versions, such as in Green-OA
- Widest possible dissemination, also to researchers without access to libraries or poorer countries



How to pay for Gold-OA?

- Membership fee of IACR
 - In past, 75% of membership fee covered the subscription of the Journal of Cryptology
- Charge to conference attendees
 - Now attendees pay nothing for electronic access
 - In past, paid \$50 for proceedings
- Author page charges (APC)
- IACR reserves



Poll

- Should IACR move to Gold-OA?

YES

NO

- If yes, membership fee increase

\$0

\$50

\$100

- If yes, increase in registration fee

\$0

\$50

\$100

- If yes, author charge (per paper)

\$0

\$150

\$300

\$500



Parallel sessions in 2015

- Since "CRYPTO" 1981 and "EUROCRYPT" 1982
 - Single track of talks, Mon-Thu, Tue afternoon "free"
- In early years, typically 30 papers
- More recently, 50-60 papers
 - <http://www.iacr.org/publications/statistics.html>
- The field has grown a lot (topics *and* people)
- After many discussions ... in 2014 the Board of Directors decided
 - ... for the three IACR conferences in 2015 to have parallel sessions for a significant part of the program*



Parallel sessions here

- Opinions?
- Poll
 - Pro / neutral / against



Parallel sessions in the future

- IACR ensures continuity over different events
- Parallel sessions are a trial for the conferences (EC, CR, AC) in 2015
- After 2015, the membership will decide whether to stay with this format in an online vote



Submission format

- At CRYPTO '14 Board of Directors decided to work with PCs to move towards harmonizing submission and publication format
 - No technical reason for submission to be different from final version
 - More transparent when submission is same as final
- Implementation
 - Submission in LNCS format
 - Submission text has the **same length** as the final version (**max. 30p. LNCS**)
 - Followed by **supplementary material** of any length (proofs, formal models, extra files ...)
 - Will be the same over multiple conferences



Open discussion



Future conferences

- Asiacrypt 2015, 29 Nov.-3 Dec., Auckland, NZ
 - Steven Galbraith (GC)
 - Tetsu Iwata & Jung Hee Cheon (PC)
 - **IACR Distinguished Lecture by Phil Rogaway**
- Eurocrypt 2016, 8-12 May, Vienna (Austria)
 - Krzysztof Pietrzak (GC)
 - Marc Fischlin and Jean-Sébastien Coron (PC)
 - **IACR Distinguished Lecture by Bart Preneel**
- Crypto 2016, 14-18 Aug., UCSB, Santa Barbara
 - Brian LaMacchia (GC)
 - Matt Robshaw and Jonathan Katz (PC)



Future conferences

- Asiacrypt 2016, 4-8 Dec., Hanoi (Vietnam)
 - Phan Duong Hieu & Ngo Bao Chau (GC)
 - Jung Hee Cheon & Tsuyoshi Takagi (PC)
- Eurocrypt 2017, 15-18 May, Paris (France)
 - Michel Abdalla (GC)
 - Jean-Sébastien Coron & Jesper Buus Nielsen (PC)
- Crypto 2017, 20-24 Aug. (tent.), UCSB, Santa Barbara
 - Steve Myers (GC)
 - Jonathan Katz & NN (PC)
 - IACR Distinguished Lecture by Shafi Goldwasser



Future conferences

- Asiacrypt 2017, 3-7 Dec., Hong Kong (HK)
 - Duncan Wong & SM Yiu (GC)
 - Tsuyoshi Takagi & NN (PC)



Future IACR-workshops

- CHES 2015, 13-16 Sep., St-Malo (FR)
 - E. Prouff, G. Renault & M. Rivain (GC)
 - Helena Handschuh & Tim Güneysu (PC)
- **TCC 2016-A**, 10-13 Jan., Tel Aviv (IL)
 - Ran Canetti & Iftach Haitner (GC)
 - Eyal Kushilevitz & Tal Malkin (PC)
- PKC 2016, 6-9 Mar., Taipei (TW)
 - Chen-Mou Cheng & Kai-Min Chung (GC)
 - Giuseppe Persiano & Bo-Yin Yang (PC)
- FSE 2016, 20-23 Mar., Bochum (DE)
 - Gregor Leander (GC)
 - Thomas Peyrin (PC)



Future IACR-workshops

- CHES 2016, 16-19 Aug., UCSB, Santa Barbara
 - Cetin Kaya Koc & Erkey Savas (GC)
 - Benedikt Gierlichs & Axel Poschmann (PC)
- **TCC 2016-B, Nov./Dec.**
 - Proposals being reviewed by TCC Steering Committee
- PKC 2017, March 28-31, Amsterdam (NL)
 - Marc Stevens (GC)
 - Serge Fehr (PC)



See you at the next event

- Barbecue at Goleta Beach, starting 18:00

