



SHARCS 2012 Welcome

Jens-Peter Kaps











List of Attendees



- distributed on Sunday, after lunch
- if you do not want your name to be listed please let our staff at the registration desk know about it
- if you do not mind your name to be listed please verify your data included in the draft version of the list
 - Name: Affiliation: Address: E-mail:



SHARCS Journey 2005-2012







Crypto Triathlon



Saturday-Sunday March 17-18 Monday-Wednesday March 19-21

Thursday-Friday March 22-23



FSE 2012 19th International Workshop on Fast Software Encryption



The Third SHA-3 Candidate Conference















Science Applications International Corporation









sponsoring historical talk by Stephen Budiansky



sponsoring invited talk by Marc Stevens



Platinum Sponsor





a division of Rambus

Sponsoring a significant portion of the venue cost



Statement from Paul Kocher



President, Cryptography Research Inc.







Statement from Paul Kocher President, Cryptography Research Inc.

On behalf of Cryptography Research, I would like to welcome you to the SHARCS 2012 Workshop. Understanding the limits of cryptographic algorithms is central to all of our efforts to build secure systems. Several years ago, one of our projects was to design the Deep Crack keysearch machine that was built to demonstrate why single-DES needed to be retired.

Today there are still many important security questions where hardware can help us Improve the security, or understand the insecurity, of cryptographic systems. We're pleased to sponsor the SHARCs workshop as a way of saying "Thank you" for your work, and because we're enthusiastic about research on cryptographic hardware.

And for the students in the audience -- we are hiring. If you want to work on solving some of the world's most challenging and interesting security problems, visit our website to see our current openings and send us your resume.



Places to See (after SHARCS)







White House



The Mall



Georgetown





Newseum

Kennedy Center



National Cryptologic Museum Fort Meade, MD







- 45-minute drive by car
- Open M-F, 9:00-16:00















SHARCS 2012 Program

Daniel J Bernstein



Kris Gaj











- Daniel J. Bernstein, University of Illinois at Chicago, USA
- Duncan A. Buell, University of South Carolina, USA
- Kris Gaj, George Mason University, USA
- Tim Güneysu, Ruhr-Universität Bochum, Germany
- Tetsuya Izu, Fujitsu Laboratories, Japan
- Tanja Lange, Technische Universiteit Eindhoven, Netherlands
- Christof Paar, Ruhr-Universität Bochum, Germany
- Christian Rechberger, Danmarks Tekniske Universitet, Denmark
- Rainer Steinwandt, Florida Atlantic University, USA
- Eran Tromer, Tel Aviv University, Israel
- Ingrid Verbauwhede, Katholieke Universiteit Leuven, Belgium
- Michael Wiener, Irdeto, Canada
- Bo-Yin Yang, Academia Sinica, Taiwan

All papers evaluated by at least 3 members of the PC



Subreviewers



Jens Hermans Markus Kasper Nele Mentens Amir Moradi Anthony Van Herrewege Frederik Vercauteren Christopher Wolf Tolga Yalcin Ralf Zimmermann



Invited Historical Talk Saturday, 17:15





Stephen Budiansky "Codebreaking with IBM machines in World War II"





Book Signing Saturday, 18:15-19:00





Stephen Budiansky

Where: table in front of the conference room

Books available for purchase at the registration desk.





Invited Talk Sunday, 9:00



Joe Hurd and Sally A. Browning Galois, Inc. Cryptol: The Language of Cryptography Cryptanalysis







Invited Talk Sunday, 13:30



Marc Stevens Centrum voor Wiskunde en Informatica (CWI) Cryptanalysis of MD5 and SHA-1









Four Sessions Based on Regular Submissions



Saturday

15:15-16:45 Session 1: Better than brute force Chair: Bo-Yin Yang

Sunday

10:30-12:00 Session 4: Discrete logarithms Chair: Tanja Lange

- 14:30-15:30 Session 6: Algebraic attacks Chair: Nicolas Courtois
- 16:00-17:00 Session 7: Tools

Chair: Christian Rechberger











Guidelines for Speakers



- Upload your slides to the presenter's laptop at least 10 minutes before the start of your session Helpers: Marcin on Saturday Rabia on Sunday
- Introduce yourself to the Session Chair before the start of your session
- Pay attention to signs indicating the amount of time left till the end of your talk

25 minutes for the talk, 5 minutes for Q&A





Enjoy the Workshop!