HistoCrypt 2018 1st International Conference on Historical Cryptology Conference Program June 18-20, 2018 Uppsala University 1ms31byli Uppsala, Sweden

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Information

Venue

Welcome to Humanistiska teatern, inspired by an anatomic theater from the 17th century, on the English Park Campus of Uppsala University, Uppsala, Sweden.



Registration

You can register either at the welcome reception or during the conference days in the lobby of the main venue. The registration desk is open:

June 17: 18:00-21:00 at the Linnaeus Garden June 18: 08:30-18:00 outside the main hall June 19: 08:30-10:00 outside the main hall

Lunch and coffee

Lunches are served in room 2-0031 close to the main hall. Coffee is served in the lobby outside the main hall.

Welcome Reception June 17, 2018 18:00-21:00

The welcome reception is held at the beautiful Linnaeus Garden¹ with a guided tour of the Linnaeus Museum², which is located inside the garden. A buffet is served.

Street address: Svartbäcksgatan 27, Uppsala

Conference Dinner June 18, 2018 18:30-23:59

Norrlands nation³, Uppsala's largest student nation.

Street address: Västra Ågatan 14, Uppsala

Dresscode: casual

Conference Dinner June 19, 2018 19:00-23:59

Borgen, located by the Fyris River.

Street address: Orphei Drängars plats 1, Uppsala

Dresscode: casual

¹ http://www.destinationuppsala.se/en/To-do/ToDo/?tlang=en&tid=788870

² http://www.destinationuppsala.se/en/To-do/ToDo/?tlang=en&tid=719635

³ http://www.norrlandsnation.se/organization/

CONFERENCE PROGRAM

Sunday, June 17, 2018

Welcome Reception 18:00-21:00 at the Linnaeus Garden⁴, Sweden's oldest botanic garden.

Monday, June 18, 2018 MAIN CONFERENCE

Location: Main Hall

09:00 – 09:30 **Opening**

Arno Wacker Chair of the Steering Committee
Beáta Megyesi Chair of the Program Committee

Eva Pettersson Chair of the Local Organizing Committee

09:30 – 10:15 **Keynote**

Chair: Beáta Megyesi

Craig Bauer

Updates on the World's Greatest Unsolved Ciphers

10:15-11:00 Historical Ciphers/Codes

Chair: Gerhard Strasser

Ekaterina Domnina

Nicodemo Tranchedini's Diplomatic Cipher: New Evidence

Camille Desenclos.

Unsealing the Secret: Rebuilding the Renaissance French Cryptographic Sources (1530-1630)

11:00-11:30 Coffee Break

11:30-12:30 Cryptanalysis of Classical Algorithms

Chair: Anne-Simone Rous

Juan José Cabezas, Joachim von zur Gathen, and Jorge Tiscornia Uruguayan Cryptographic Carpet

Nils Kopal

Solving Classical Ciphers with CrypTool 2

Mark Stamp, Fabio Di Troia, Miles Stamp and Jasper Huang Hidden Markov Models for Vigenère Cryptanalysis

⁴ http://www.botan.uu.se/our-gardens/the-linnaeus-garden/visit-the-garden/

12:30-13:30 Lunch

13.30-14.15 **Keynote**

Chair: Bernhard Esslinger

David Naccache and Rémi Géraud

A French Code from the Late 19th Century

14:15-14:45 Coffee break

14:45-16.15 World War I

Chair: Marek Grajek

Karl de Leeuw

The Solving of a Fleissner Grille during an Exercise by the Royal Netherlands Army in 1913

George Lasry

Deciphering German Diplomatic and Naval Attaché Messages from 1914-1915

Ingo Niebel

Learning Cryptanalysis the Hard Way: A Study on German Culture of Cryptology in World War I

Paolo Bonavoglia

New Findings in a WWI Notebook of Luigi Sacco

16:15-16:45 Coffee break

16:45-17.30 **Keynote**

Chair: Benedek Láng

Katherine Ellison

Cryptology and the Fantasy of Reading

18:30-00:00 Conference Dinner at Norrlands Nation⁵

⁵ http://www.norrlandsnation.se/

Tuesday, June 19, 2018 MAIN CONFERENCE

Location: Main Hall

09:00-09:45 **Keynote**

Chair: Otokar Grošek

Ephraim Lapid
The Israeli Enigma

09:45-10:15 Coffee break

10:15-12:00 World War II

Chair: Karl de Leeuw

Anders Wik

The First Classical Enigmas. Swedish Views on Enigma Development 1924-1930

Marek Grajek

An Inventory of Early Inter-Allied Enigma Cooperation

Dermot Turing

The Poles and Enigma after 1940: le voile se lève-t-il?

Magnus Ekhall and Fredrik Hallenberg

US Navy Cryptanalytic Bombe – A Theory of Operation and Computer Simulation

Carola Dahlke

What We Know about Cipher Device "Schlüsselgerät SG-41" so far

12:00-13:00 Lunch

13:00–15:00 Business meeting

15:00-15.30 Coffee break

15:30-16:30 Keynote: Special Session on Arne Beurling

Chair: Anders H. Wik

Kjell-Ove Widman

Arne Beurling: Mathematician and Code Breaker

George Lasry

Modern codebreaking of T52

Poster and demo session with exhibition and coffee

Location: Room 2-0031 and the lobby outside the main hall

Posters

16:30-18:00

Noor R. Al-Kazaz, Sean A. Irvine and William J. Teahan An Automatic Cryptanalysis of Playfair Ciphers Using Compression

Niels O. Faurholt Willard's System

Anna Lehofer

The Application of Hierarchical Clustering to Homophonic Ciphers

Michal Musílek and Štěpán Hubálovský

Teaching and Promoting Cryptology at Faculty of Science University of Hradec Králové

Klaus Schmeh

Examining the Dorabella Cipher with Three Lesser-Known Cryptanalysis Methods

Jaap van Tuyll

Design and Strength of a Feasible Electronic Ciphermachine from the 1970s

Demos

Eugen Antal and Pavol Zajac ManuLab System Demonstration

Magnus Ekhall and Fredrik Hallenberg
US Navy Cryptanalytic Bombe - A Theory of Operation and Computer Simulation

Nils Kopal

Solving Classical Ciphers with CrypTool 2

Extra demo by the organizers: Beáta Megyesi, Nils Blomqvist and Eva Pettersson The DECODE database

Exhibition by FRA⁶: Anders H. Wik and Åsa Ljungqvist Enigma machines

18:00-18:15 **Closing**

Location: Main Hall

19:00-00:00 Conference Dinner at Restaurant Borgen⁷

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⁶ http://www.fra.se/snabblankar/english.10.html

⁷ https://www.borgenuppsala.se/

Wednesday, June 20, 2018 WORKSHOPS

09:00-12:00 (Automated) Cryptanalysis of Classical Ciphers with CrypTool 2

Workshop organizers: Nils Kopal, Armin Krauss, Bernhard Esslinger Location: Room 22-1017

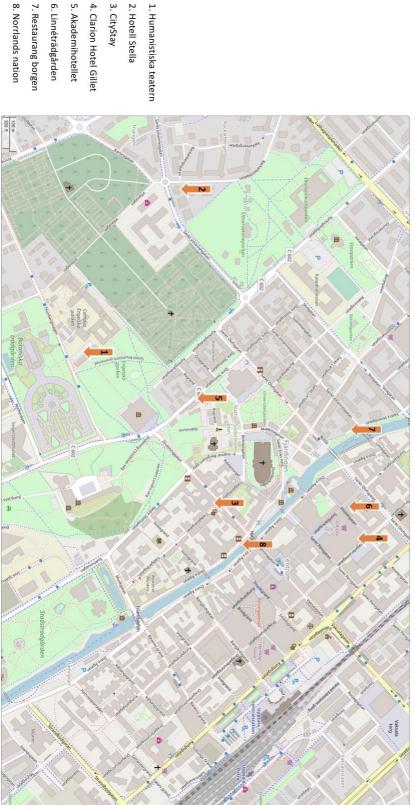
12:00-13:00 Lunch

13:00-17:00 Solving Codes rather than Ciphers. Is there a Software Challenge?

Workshop organizer: Karl de Leeuw

Location: Room 22-1017

Map: Venue, Hotels and Social Events



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