

Organization and Contributors

The following contributors have kindly agreed to speak:

- Marisa De Picker, M.A., Catholic University of Leuven, Belgium
- Prof. em. Dr. Gerhard Dohrn-van Rossum, TU Chemnitz, Germany
- Dr. Pamela O. Long, independent historian, John D. and Catherine T. MacArthur Fellow, Washington/DC, USA
- Dr. Fay Lundh Nilsson, Lund University, Lund, Sweden
- Dr. Peter Moser, Archives of Rural History, Bern, Switzerland
- Dr. Rupert Pichler, Austrian Ministry for Transport, Innovation and Technology, Vienna, Austria
- Laura Platte, M.A., RWTH Aachen, Germany
- Prof. Dr. Marcus Popplow, KIT Karlsruhe Institute of Technology, Karlsruhe, Germany (Closing Remarks)
- Andreas Rauch, GF Machining Solutions, Biel, Switzerland
- Prof. Dr. Reinhold Reith, University of Salzburg, Austria
- Prof. em. Leonard N. Rosenband, Utah State University, Logan/UT, USA
- Dr. Yulia Sandamirskaya, Institute of Neuroinformatics (INI), University and ETH Zurich, Switzerland
- Nina Schläfli, M.A., University of Bern, Switzerland
- Dr. Corinna Schlombs, Rochester Institute of Technology, Rochester/NY, USA
- Dr. Olaf Schmidt-Rutsch, LWL-Industriemuseum, Dortmund, Germany
- Dr. Serenity Sutherland, State University of New York, Oswego/NY, USA

Scientific Board:

- Dr. Gisela Hürlimann, ETH Zurich, Switzerland
- Prof. Dr. Reinhold Reith, University of Salzburg, Austria
- Prof. Dr. Friedrich Steinle, TU Berlin, Germany

Host and organization:

Franziska Eggimann and the team of Iron Library and Corporate Archives of Georg Fischer Ltd., Schlatt/Schaffhausen, Switzerland

Conference languages:

The conference will be held in English and German. English summaries of the German papers will be provided.

EISENBIBLIOTHEK



An event of the Iron Library Foundation, Schlatt, with the generous support of Georg Fischer Ltd, Schaffhausen.

Participation by invitation only.

Technology's workforce. Inventing, operating and learning technology throughout history

41th History of Technology Conference of the Iron Library

Die Personen der Technik. Erfinden, Ausüben und Erlernen von Technik(en) in historischer Perspektive

41. Technikgeschichtliche Tagung der Eisenbibliothek

Friday 16 and Saturday 17 November 2018
Auditorium, Klostergut Paradies, Schlatt, Switzerland

Contact

Iron Library

Klostergut Paradies
8252 Schlatt, Switzerland
Tel. +41 52 631 27 44
eisenbibliothek@georgfischer.com
www.eisenbibliothek.ch

Venue

Klostergut Paradies

Klostergutstrasse 4
8252 Schlatt, Switzerland
www.klostergutparadies.ch

Picture: Foundry experts examining a Francis turbine, 1959.
(Corporate Archives of Georg Fischer Ltd.)



Conference program

Thursday, 15 November 2018

Arrival (individually)

- 18.30 **Pre-conference lecture and reception (optional)**
in cooperation with the Vortragsgemeinschaft Schaffhausen
Yulia Sandamirskaya, Zurich
Die «künstliche Intelligenz»: ist sie möglich? ("Artificial intelligence": is it possible?)
Following the lecture, guests are invited to an apéro riche. The lecture and the reception are open to the public. All conference participants are very welcome.
Lecture venue: Rathauslaube, Rathausbogen 10, Schaffhausen
Reception: Hotel Kronenhof, Kirchhofplatz 7, Schaffhausen

Friday, 16 November 2018

Auditorium, Klostersgut Paradies, Schlatt

- 8.00 Transfer from Schaffhausen to the Klostersgut Paradies
8.30 Dr. Roland Gröbli, Chairman of the Governing Board of the Iron Library Foundation and Corporate Secretary of Georg Fischer Ltd. Welcome and official opening of the Conference
8.45–9.30 **Keynote speech**
Eröffnungsvortrag
Moderator: Gisela Hürlimann, Zurich
Pamela O. Long, Washington/DC
Bricologic Practitioners and the Fluid Culture of Skilled Work in Late Sixteenth-Century Rome
Discussion
9.30 Coffee break

- 10.00–11.45 **Handicraft and factory work in the pre-modern era**
Handwerk und Fabrikarbeit in der Vormoderne
Moderator: Friedrich Steinle, Berlin
Gerhard Dohrn-van Rossum, Chemnitz
Uhrmacher als Prototypen technischer Experten in der europäischen Vormoderne. Migrationen und Vermittlung technischer Kompetenzen
(Watchmakers as the prototype of technical experts in pre-modern Europe. Migration and transfer of technical competencies)
Reinhold Reith, Salzburg
animal laborans und homo faber. Eine historische Annäherung an die «handwerkliche Orientierung»
(animal laborans and homo faber. An historical approach to the "craftsman orientation")
Leonard N. Rosenband, Logan/UT
Journeyman Paperworkers, the Industrious Revolution, and the Industrial Enlightenment, c. 1700–1800
Discussion
11.45 Lunch in the Refectory
13.15–15.00 **Engineers, scientists, and workers in the steel industry**
Ingenieure, Wissenschaftler und Arbeiter der Stahlindustrie
Moderator: Reinhold Reith, Salzburg
Nina Schläfli, Bern
Einführung und Etablierung des Dampfschiffbaus bei Escher, Wyss & Cie. Transnationale Netzwerke und Technologietransfers (Launch and establishment of steamship construction at Escher, Wyss & Cie. Transnational networks and technology transfer)
Rupert Pichler, Vienna
Innovationen in grossen Unternehmen. Hubert Hauttmann – eine österreichische Karriere in der Industrieforschung
(Innovation in large enterprises. Hubert Hauttmann – an Austrian career in industrial research)

Olaf Schmidt-Rutsch, Dortmund
Arbeit, wie sie nicht im Buche steht: Das «Erinnerungsarchiv Industriearbeit» des LWL-Industriemuseums, Westfälisches Landesmuseum für Industriekultur
(Not a textbook example of labor: the "Industrial Labor Memory Archive" at the Westfalian Museum of Industrial Culture)

Discussion

15.00 Coffee break

15.30–16.45 **Women in science and technology**
Frauen in Wissenschaft und Technik
Moderator: Friedrich Steinle, Berlin

Serenity Sutherland, Oswego/NY
Women in Chemistry's Workforce: The Women's Laboratory at Massachusetts Institute of Technology, 1876–1884

Corinna Schlombs, Rochester/NY
Computing's Workforce: Key punch Operators, Gender, and Class in Banking Automation

Discussion

16.45 Visit of the centenary exhibition «Vigorous Convent – Vibrant Industry: 100 Years of GF at Klostersgut Paradies»

17.15 Coffee break and transfer

18.00–19.00 Factory tour at GF Piping Systems, Schaffhausen

19.30 Conference dinner at Hombergerhaus in Schaffhausen

Saturday, 17 November 2018

Auditorium, Klostersgut Paradies, Schlatt

- 8.00 Transfer from Schaffhausen to the Klostersgut Paradies
8.30–10.15 **Training and work processes in the 19th and 20th centuries**
Ausbildung und Arbeitsprozesse im 19. und 20. Jahrhundert
Moderator: Gisela Hürlimann, Zurich

Fay Lundh Nilsson, Lund
Technical Education and Regional Development – Technical Secondary Schools as Nodes for Industrial Development in Sweden 1850–1920

Peter Moser, Bern
Taylor vor Augen, den Maulwurf im Kopf. Konrad von Meyenburg und die Rezeption seiner Erfindungen in der agrarischen Praxis (Taylor in sight. Mole in the mind. Konrad von Meyenburg and the reception of his discoveries in agrarian practice)

Marisa De Picker, Leuven
Prosthetic Labor Hands and the Mechanization of Disability. The Vocational Training of Belgian Physically Disabled Veterans of the First World War, 1914–1925

Discussion

10.15 Coffee break

10.45–12.00 **Artificial intelligence and digital transformation in industry**

Künstliche Intelligenz und digitale Transformation in der Industrie
Moderator: Reinhold Reith, Salzburg

Laura Platte, Aachen
Künstliche Intelligenz: Die erste Kränkung des Ingenieurs?
(Artificial intelligence: The engineer's first humiliation?)

Andreas Rauch, Biel
Digital Transformation at GF Machining Solutions: Engineering Industry in the Digital Age

Discussion

Resumé

12.00 Marcus Popplow, Karlsruhe
Conclusion and closing remarks

12.15 Franziska Eggimann, Iron Library
Closing words

12.30–13.00 Visit to the Iron Library

Lunch in the Refectory

13.30 Transfer to Schaffhausen train station (Arrival ca. 13.50)