

Abstract Submission

Abstract submission is open for Ph. D. Students of the Department of Mechanical and Process Engineering. All the contributions will be presented as posters. Priority will be given to the students already in the two final semesters of their project.

Abstract submissions (see detailed instructions for the preparation of abstracts at www.stodola.ethz.ch), by e-mail to Maddalena Velonà: maddalena.velona@ipe.mavt.ethz.ch

Venue

Ph.D. Student Day and Stodola Lecture
ETH Zentrum
Auditorium Maximum
Rämistrasse 101
Zurich

Poster Exhibition
Gallerie in front of the Auditorium Maximum

Organisation

Prof. Dr. Marco Mazzotti
Department of Mechanical and Process Engineering
Deputy Head, Research + Ph.D. Studies

Maddalena Velonà
Institute of Process Engineering
ETH Zurich
Sonneggstrasse 3
CH-8092 Zurich

Tel.: ++41-1-632 02 89
Fax: ++41-1-632 11 41
E-mail: maddalena.velona@ipe.mavt.ethz.ch

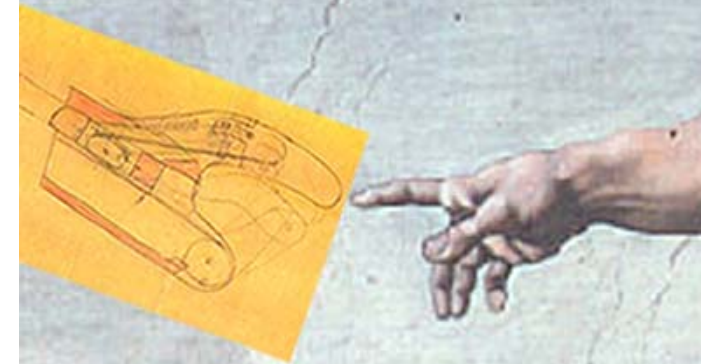
Web page: www.stodola.ethz.ch

Deadlines

Abstract submission: April 20th, 2004
Abstract acceptance: April 27th, 2004
Final program: April 28th, 2004
(see program at www.stodola.ethz.ch)

Ph.D. Student Day : May 11th, 2004

DMAVT Ph.D. Student Day and Stodola Lecture



ETH Zentrum
Auditorium Maximum
May 11th, 2004

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

DMAVT

DMAVT Ph.D. Student Day

The Ph.D. Student Day of the Department of Mechanical and Process Engineering brings to the forefront the work of the doctoral students, which constitutes the backbone of D-MAVT research. It gives them the opportunity to present their work and to interact among themselves, with colleagues at ETH Zurich, with professors, and with external guests, e.g. alumni and industry people. This event will also highlight the multi-faceted research activities at D-MAVT, and their significance as regards the needs of the society.

During the day, a few personalities from different fields will present their view about science and technology either in their own area or with reference to ETH Zurich and D-MAVT. Among these there will also be the recipient of the ETH Stodola Medal.

The D-MAVT Ph.D. Student Day will be celebrated at ETH Zentrum, in the AudiMax, on May 11th, 2004.

The doctoral students at D-MAVT are invited to submit abstracts for presentation, and all interested people are kindly invited to attend.



The image on the front page combines a detail of Michelangelo's Cappella Sistina (1508-12) with

Aurel Stodola's design of an artificial hand (1916). It refers to the quest of scientists and engineers for transcending human limits and boundaries, and at the same time to the importance of the exchange between society and science that this event wishes to foster.

Stodola Lecture

D-MAVT organizes annually the Stodola Lecture with the intention to commemorate the personality and the seminal contributions to the field of mechanical engineering of its former faculty member Aurel Stodola (1859-1942, active at ETH Zurich from 1892 to 1929). A pioneer in the area of the technical thermodynamics and its applications, Aurel Stodola has guided through his work many generations of engineers and engineering developments worldwide.



The Stodola Lecture is given by an internationally recognized expert in the field of mechanical and process engineering, which is selected by the department faculty and is awarded the ETH Stodola Medal.

The 2004 ETH Stodola Medal is awarded to Professor Sheldon Friedlander of the University of California, Los Angeles, for his work in the field of aerosol engineering, i.e. the science and technology of fine particles in gases, with applications to air pollution and advanced materials.

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

DMAVT

Program

- 09:15 Welcome address
09:25 "Haben Schweizer Polytechniker eine Zukunft in einem nordamerikanisch geführten, weltweit tätigen Industriekonzern?",
Georg Reif, President Alcan Composites
10:00 "Numerical analysis of particle transport and flow modification in temporally evolving mixing layers",
Dr. Chidambaram Narayanan, ETH Zurich, 2004 ETH Medal

10:20 **Poster exhibition and coffee break**

- 10:40 "Nano-scale patterning of aluminium films by water and light",
Dr. Daniel Häfliger, Technical University of Denmark, 2004 ETH Medal
11:00 "Flow, Flame Characterization and Nitric Oxide Formation in Turbulent Premixed Flames",
Dr. Kai Herrmann, ETH Zurich, 2004 ETH Medal
11:20 "The values of Wissenschaft between mind and money",
Prof. Michael Hagner, ETH Zurich

11:50 **Poster exhibition and lunch buffet**

- 13:15 "Engineering, Science, and our Future",
Prof. Richard Ernst, ETH Zurich
14:00 "Prion research: primer and progress report",
Prof. Adriano Aguzzi, University Hospital Zurich

14:45 **Poster exhibition and coffee break**

- 15:30 **Stodola Lecture**
"Nanoparticle aerosol technology: an enabling discipline", Prof. Sheldon Friedlander, University of California Los Angeles