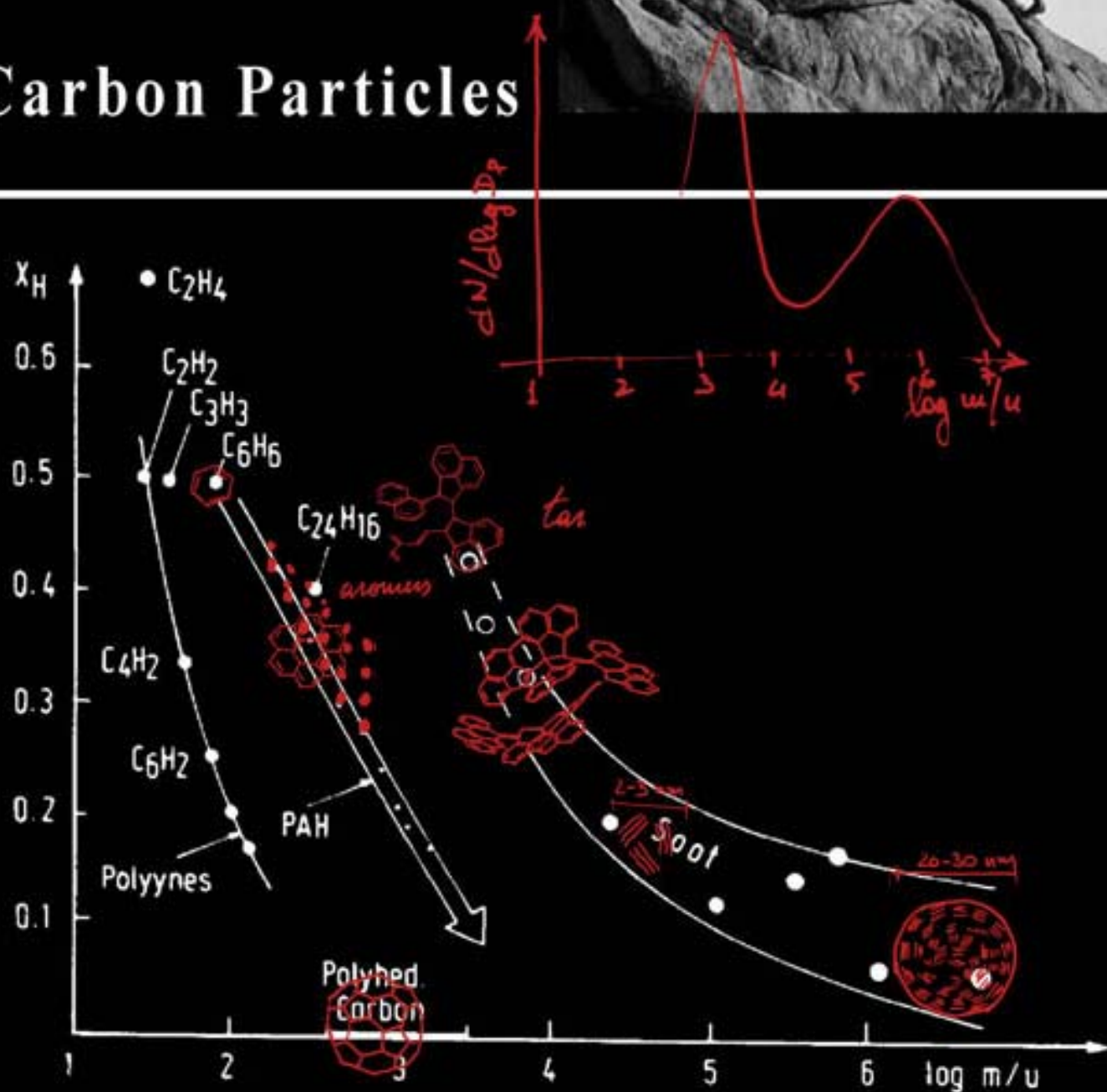


International Workshop on Combustion Generated Fine Carbon Particles



Villa Orlandi - Anacapri, Italy - May 13-16, 2007

International Workshop on
Combustion-Generated Fine Carbon Particles

Villa Orlandi – Anacapri
13-16 May, 2007

Institutions of Workshop Organizers

Istituto di Ricerche
sulla Combustione CNR



Istituto di Ricerche sulla Combustione



Universität Karlsruhe (TH)
Research University • founded 1825



Università degli Studi
di Napoli Federico II



Universität Karlsruhe (TH)
Research University • founded 1825



Collaborative Research Centre 606: UNSTEADY COMBUSTION:
Transport Phenomena-Chemical Reactions-Technical Systems



Sandia
National
Laboratories



Brandenburgische Technische
Universität Cottbus

Imperial College
London

International Workshop on Combustion-Generated Fine Carbon Particles

*Villa Orlandi – Anacapri
13-16 May, 2007*

International Committee

Henning Bockhorn

Universität Karlsruhe, Germany

Andrea D'Anna

Università di Napoli Federico II, Italy

Michael Frenklach

University of California, Berkeley, USA

John Hewson

Sandia National Laboratories, USA

Peter Lindstedt

Imperial College, UK

Fabian Mauss

Cottbus University, Germany

Adel Sarofim

University of Utah, USA (chair)

Hai Wang

University of Southern California, USA

Local Organizing Committee

Andrea D'Anna

Università di Napoli Federico II, Italy

Anna Ciajolo

CNR Napoli, Italy

Antonio Tregrossi

CNR Napoli, Italy

Stefania Acanfora

MCM Congressi, Italy

The workshop is held from May 13 to 16, 2007, in Villa Orlandi, Anacapri Italy. The workshop is a sequel to a number of international soot workshops the most recent of which was held in Heidelberg, leading to the publication in 1994 of "Soot Formation in Combustion", edited by Henning Bockhorn.

The purpose of the workshop is to

- Review the current status of our understanding of soot formation mechanisms, new data and experimental methodologies, and advances in the application of soot models to solve practical problems.
- Candid discussion of areas of discrepancies and the priorities for future research.
- The definition of a plan for collaboration between the soot community for the establishment of a web-based data base and model comparison.

Five half-day sessions are planned:

1. Formation of Soot Precursors for Real Fuels
2. Particle Inception and Maturation
3. Dynamics of Mass and Number Growth and Decay
4. Turbulent Flames and Practical Applications
5. Establishment of an International Soot Collaborative

Following a modification of the roundtable format of the Göttingen Workshop, leading to the publication in 1990 of "Soot Formation in Combustion: An International Round Table Discussion", each session will have two prepared half hour presentations summarizing developments in the theme of the session. A variation on the Göttingen format is to have these overview discussions followed by an hour informal poster session with presentations relevant to the session theme. An open discussion will follow the two presentations and the poster session.

The products of the workshop will be the plan for the International Soot Collaborative and a book summarizing the papers, presentations, and discussions.

Adel F. Sarofim
Chair of the International Committee

Program

Sunday 13 May

5:00 pm

Villa Orlandi is opened to welcome the participants

Information material and program of the meeting is distributed

5:00 pm – 6:00 pm

Light drinks in the garden

6:00 pm – 8:30 pm

Welcome party

Monday 14 May

8:30 am

Welcome and opening

9:00 am – 9:15 am

Presentation of Session I Formation of Soot Precursors for Real Fuels

Co-Chairs: P. Lindstedt & F. Mauss

9:15 am – 10:15 am

Invited talk E. Ranzi – Politecnico di Milano, Italy

Invited talk P. Westmoreland – University of Massachusetts Amherst, USA

10:15 am – 11:45 am

Coffee break and poster session

11:45 am – 1:00 pm

Open discussion

1:00 pm – 2:30 pm

Lunch break: buffet lunch

2:30 pm - 2:45 pm

Presentation of Session II Particle Inception and Maturation

Co-Chairs: A. D'Anna & M. Frenklach

2:45 am – 3:45 am

Invited talk A. D'Alessio – Università di Napoli Federico II, Italy

Invited talk M. Frenklach – University of California, Berkeley, CA, USA

3:45 am – 5:15 am

Coffee break and poster session

5:15 am – 6:30 pm

Open discussion

8:00 pm – 10:00 pm

Dinner

Tuesday 15 May

9:00 am – 9:15 am

Presentation of Session III Dynamics of Mass and Number Growth and Decay

Co-Chairs: H. Bockhorn & A. D'Anna

9:15 am – 10:15 am

Invited talk A. D'Anna – Università di Napoli Federico II, Italy

Invited talk H. Wang – University of Southern California, CA, USA

10:15 am – 11:45 am

Coffee break and poster session

11:45 am – 1:00 pm

Open discussion

1:00 pm – 2:30 pm

Lunch break: buffet lunch

2:30 pm - 2:45 pm

Presentation of Session IV Turbulent Flames and Practical Applications

Co-Chairs: P. Lindstedt and H. Bockhorn

2:45 pm – 3:45 pm

Invited talk H. Bockhorn – Universität Karlsruhe, Germany

Invited talk P. Lindstedt – Imperial College, UK

3:45 pm – 5:15 pm

Coffee break and poster session

5:15 pm – 6:30 pm

Open discussion

7:30 pm

Meeting point in Piazza Vittoria

8:00 pm – 10:00 pm

Social dinner

Wednesday 16 May

9:00 am – 2:00 pm

Open discussion. Light drinks and buffet lunch

2:00 pm - 2:30 pm

Presentation of Session V Establishment of an International Soot Collaborative

Co-Chairs: M. Frenklach & J. Hewson

2:30 pm – 4:30 pm

Open discussion

5:00 pm

End of the meeting

List of participants

Michael Balthasar

VOLVO

Sweden

Henning Bockhorn

Universität Karlsruhe

Germany

Kenneth Brezinsky

University of Illinois at Chicago

USA

Helen Brockelurst

Rolls Royce

UK

Nabiha Chaumeix

CNRS, Orlenas

France

Anna Ciajolo

CNR, Napoli

Italy

Med Colket

United Technologies Research Center

USA

Edwin Corporan

Wright Patterson Air Force Res. Lab.

USA

Antonio D'Alessio

Università di Napoli Federico II

Italy

Andrea D'Anna

Università di Napoli Federico II

Italy

Pascale Desgroux

Université des Sciences et Technologies de Lille

France

Richard A. Dobbins

Brown University

USA

Ruud Eggel

Rolls Royce

Germany

Michael Frenklach

University of California, Berkeley

USA

Horst-Henning Grotheer

Institute of Combustion Technology, DLR

Germany

Brian Haynes

University of Sydney

Australia

John Hewson

Sandia National Laboratories

USA

Ian Kennedy

University of California, Davis

USA

John Kent

University of Sydney

Australia

Stephen Klippenstein

Argonne National Laboratory

USA

Katharina Kohse-Hoeinghaus

Bielefeld University

Germany

Markus Kraft

Cambridge University

UK

Shuichi Kubo

Toyota Central R&D Lab.

Japan

JoAnn Slama Lighty

University of Utah

USA

Peter Lindstedt
Imperial College
UK

Matti Maricq
Ford Motor Company
USA

Fabian Mauss
Cottbus University
Germany

Charles McEnally
Yale University
USA

Houston J. Miller
The George Washington University
USA

Patrizia Minutolo
CNR, Napoli
Italy

Frederick Ossler
Lund University
Sweden

Lisa Pfefferle
Yale University
USA

Heinz Pitsch
Stanford University
USA

Eliseo Ranzi
Politecnico di Milano
Italy

Robert J. Santoro
Penn State University
USA

Adel F. Sarofim
University of Utah
USA

LeeAnn Sgrò
Università di Napoli Federico II
Italy

Christopher Shaddix
Sandia National Labs
USA

Mitch Smooke
Yale University
USA

Peter B. Sunderland
University of Maryland
USA

Wing Tsang
NIST
USA

Angela Violi
University of Michigan
USA

Pavel Vlasov
Semenov Institute of Chemical Physics
Russian Academy of Science
Russia

Hai Wang
University of Southern California
USA

Jürgen Warnatz
University of Heidelberg, IWR
Germany

Phil Westmoreland
University of Massachusetts Amherst
USA

Michael R. Zachariah
University of Maryland and National Institute of
Standards and Technology
USA

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