



# ILASS NEWSLETTER

Institute of Liquid Atomization and Spray Systems



This space is devoted to share the latest updates about the ILASS Europe Community and disseminate relevant information on Scholarships, Awards, Conferences and Workshops. **In this context I would like to invite all our community members to participate by sending Announcements you wish to spread to the ILASS-Europe Newsletter ([ltces@dem.ist.utl.pt](mailto:ltces@dem.ist.utl.pt)).**



## ILASS ANNOUNCEMENTS

### ORGANIZATION

#### PAUL EISENKLAM TRAVEL AWARDS FOR YOUNG RESEARCHERS

Each year ILASS-Europe encourages young researchers to attend ICLASS and ILASS-Europe conferences through the **Paul Eisenklam Travel Award. This year, ILASS-Europe will support 4 young researchers to attend ICLASS-2012. The award in the form of a bursary has a maximum amount of 1000 € including travel expenses, accommodation, daily allowances and conference fees. Conference fees are transferred directly to the conference organizers.**

Eligible candidates must meet the following criteria:

1. Be a full time graduate student/research assistant at the time of the conference.
2. Present a poster or an oral paper at the conference, describing the research effort to which he/she made a significant contribution.
3. Clearly benefit from the availability of travel funds in order to attend the conference.

To apply for funding, applicants must submit the following information, together with the conference abstract:

- A brief description of the research to be presented
- A statement, why it is essential to receive the travel award to be able to join the conference
- An affirmation of willingness to present a paper or a poster on the conference
- Details of other awards, contributions or grants towards travel and/or subsistence expenses for the same conference
- Explanation of the expected benefit from conference attendance.

Also, a letter of endorsement of the research advisor must be included.

Consideration will be given to the general contribution of the work to the field of Atomization and Sprays, the applicant's contribution to the research, financial need, and how the conference attendance will advance the applicant's career.

Expenses will be reimbursed after the conference on the basis of original documents.

Please send your complete e-mail application in a single pdf file to

**Prof. Dr.-Ing. Joachim Domnick**

Dekan der Fakultät Angewandte Naturwissenschaften

Hochschule Esslingen, Kanalstraße 33

73728 Esslingen

[Joachim.Domnick@hs-esslingen.de](mailto:Joachim.Domnick@hs-esslingen.de)

# ILASS-Europe EVENTS

ICLASS 2012

September 2-6, 2012  
Heidelberg, Germany



The deadline for abstracts submission is now closed.

We had **307 paper abstract submissions 298 of which we accepted.**

Out of the 307 submissions, we had 164 submissions from ILASS Europe, 51 from ILASS Americas, and 38 from ILASS Asia, 27 from other Asian countries, 11 from Eurasia, 6 from Australia, 9 from the Middle East, and one from Africa. From the ILASS Asia submissions, 29 come from Japan, 7 from Korea, and 2 from Taiwan.

## INVITED SPEAKERS:

### PHYSICS BEHIND DIESEL SPRAYS

Prof. Masataka Arai  
Gunma University, Japan.

### THE SIGNIFICANCE OF FUEL PREPARATION FOR LOW EMISSIONS AERO-ENGINE COMBUSTION TECHNOLOGY

Dr. Thomas Dörr  
Rolls-Royce Deutschland Ltd. & Co KG.

### ON USING DETAILED SIMULATIONS TO STUDY PRIMARY ATOMIZATION

Prof. Marcus Herrmann  
Arizona State University, USA.

**Please note that there will be a pre-conference workshop TSC 3 and a post-conference workshop ECN 2, see [www.iclass2012.org](http://www.iclass2012.org), and participation is highly recommended [click here to see the flyer](#)**

**Conference registration will start in April 2012 with reduced fees for early-bird registration.**

**You may still submit 1-page abstracts for the late-breaking poster session until July 1<sup>st</sup>, 2012.**

Final 8-page manuscripts (max 10MB) are due by April 1<sup>st</sup>- Paper reviews and acceptance notification to the authors will be provided on or near June 1<sup>st</sup>, 2012, with revised ready-to-print manuscripts from the authors due by July 15<sup>th</sup>, 2012. **The reviewers will determine eligibility for oral or poster presentation as well as potential inclusion in a special edition of the journal *Atomization and Sprays*.**

All updated information can be checked at

<http://www.iclass2012.org/>

## Important Dates

Abstract Submission(500 words):  
Full Manuscript (8 pages, 10MB):  
Acceptance Notification:  
Camera-ready manuscripts:  
Posters:

**Closed**  
**April 15, 2012**  
**June 1, 2012**  
**July 15, 2012**  
**July 31, 2012**

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## FUTURE EVENTS

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# 16<sup>th</sup> *International Symposium*

## ON APPLICATIONS OF LASER TECHNIQUES TO FLUID MECHANICS

FROM 9 TO 12 JULY 2012 at FUNDAÇÃO CALOUSTE GULBENKIAN, Lisbon, Portugal

<http://ltces.dem.ist.utl.pt/lxaser/lxaser2012/registration.asp>

The number of abstracts submitted is well above the average of all previous editions and cover a large spectrum of topics, from the fundamentals to applications either in conventional or in emergent domains, such as those at the nano-micro scale or in biomedical engineering.

The scientific program is now under construction which will consist of a combination of *paper* and plenary sessions. The former is based on the abstracts accepted after review by the members of the Advisory Committee; the latter will comprise three invited lectures by eminent speakers in emerging fluid dynamic applications of laser techniques and a plenary session featured by the exhibitors to provide ample opportunity for attendees to be acquainted with the latest laser based techniques developed for fluid flow research.

### KEYNOTE LECTURES:



#### MAGNETIC RESONANCE VELOCIMETRY

Professor John Eaton  
Center for Turbulence Research, Department of Mechanical Engineering  
Stanford University, USA



#### AEROACOUSTICS MEASUREMENTS USING PIV

Professor Jerry Westerweel  
Laboratory for Aero en Hydrodynamics  
Delft University of Technology, NL



#### IMAGING TRANSPORT IN LIVING CELLS

Professor Clemens Kaminski  
Department of Chemical Engineering and Biotechnology  
University of Cambridge, UK

Registrations are now open online at:

<http://ltces.dem.ist.utl.pt/lxaser/lxaser2012/registration.asp>

The deadline for the advance registration fee is May 18.

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# 7th International Symposium on Turbulence, Heat and Mass Transfer

## Palermo, Sicily, Italy, September 24-27, 2012

The seventh triennial symposium, after Lisbon (1994), Delft (1997), Nagoya (2000), Antalya (2003), Dubrovnik (2006) and Rome (2009), will provide a new opportunity for scientists and engineers to present recent advances and to discuss current problems, future needs and prospects in the area of heat and mass transfer associated with turbulence.

Major topics and new trends will be introduced through several keynote lectures that will be presented by internationally recognized experts.

More info: <http://www.thmt-12.org/>

For any questions please contact [domenico.borello@uniroma1.it](mailto:domenico.borello@uniroma1.it)

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## COURSES AND WORKSHOPS

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**SPRAY 2012**

**10<sup>th</sup> Workshop on  
Atomization Techniques and Spray Research**

Berlin, 21-22 May, 2012

Call for Papers

**Prozess-Spray**  
DFG - SPP 1423

The 10<sup>th</sup> Workshop on Atomization Techniques and Spray Research will be held in Berlin, 21<sup>st</sup> and 22<sup>nd</sup> May, 2012. All the talks and discussions are in German.

# SPRAY 2012

## Kontakt und Adressen

Registrierung und Anmeldung zur SPRAY 2012:

<http://tinyurl.com/spray2012>

**Abstracts** (bis 15.3.12) **und Beitragseinreichung** (bis 30.4.12)

Frau Claudia Sobich, Univ. Bremen

[sobich@iwt.uni-bremen.de](mailto:sobich@iwt.uni-bremen.de)

**Organisation Spray-Workshop Berlin:**

Frau Christine Ludewig, TU Berlin

[christine.ludewig@tu-berlin.de](mailto:christine.ludewig@tu-berlin.de)

**Unterkunft:** (zu buchen bis 15.04.2012, Stichwort „Spray“)

Hotel Steglitz International (EZ 79€, DZ 102€ inkl. Frühstück)

Tel.: 030/79005521; [info@steglitz.bestwestern.de](mailto:info@steglitz.bestwestern.de)

Apartmenthotel Residenz 2000 (EZ 56€ inkl. Frühstück)

Tel.: 030-81056253; [info@residenz-2000.de](mailto:info@residenz-2000.de)



# SPRAY 2012



Ankündigung  
Call for Papers

## 10. Workshop

über  
**Sprays,  
Techniken der Fluidzerstäubung  
und  
Untersuchungen von Sprühvorgängen**

**Berlin  
21.-22. Mai 2012**

**Sprays** nehmen in vielfältigen technisch-industriellen Einsatzgebieten eine zentrale Rolle ein. Das Anwendungsspektrum von Sprayprozessen reicht von der klassischen Treibstoffaufbereitung für Verbrennungsprozesse über die chemische Industrie, die Lebensmitteltechnik und pharmazeutische Technik sowie die Metallindustrie bis hin zur Landwirtschaft. Für eine optimale Prozessgestaltung und gleichbleibend hohe Produktqualität sind detaillierte Kenntnisse über die dominierenden physikalischen Prozesse der Zerstäubung notwendig. Die Vielzahl der technischen Anwendungen bereiten wegen der großen Bandbreite der Einsatz- und Randbedingungen große Schwierigkeiten für eine allgemeingültige Modellierung der Zerstäubung unter vollständiger Berücksichtigung der jeweiligen thermodynamischen und strömungsmechanischen Randbedingungen.

Der **Spray-Workshop 2012** soll Ingenieuren und Wissenschaftlern aus Forschung und Industrie Gelegenheit bieten, sich - über ihre jeweiligen Einsatzgrenzen hinweg - mit aktuellen Problemen und Lösungsansätzen der Fluidzerstäubung, den entsprechenden Messtechniken sowie der physikalischen Modellbildung und deren numerischer Behandlung auseinander zu setzen.

Die Spray-Workshops werden seit 1994 in loser Reihenfolge im deutschsprachigen Raum durchgeführt. Der aktuelle Workshop Spray 2012 in Berlin ist der zehnte in dieser Reihe.

Seit dem März 2009 läuft das von der DFG geförderte Schwerpunktprogramm **Prozess-Spray: Herstellen funktionaler Feststoffpartikeln in Sprühverfahren - Von den Anforderungen an das Pulver und an seine Eigenschaften zum geeigneten Prozess.**



Gegenstand dieses SPP ist die gezielte Entwicklung und Anwendung von prozessintegrierten Zerstäubungsverfahren, um maßgeschneiderte Feststoffe in Pulverform mit definierten Eigenschaften zu erhalten. Dabei liegt der Ausgangsstoff als komplexes mehrphasiges System z.B. als Suspension oder Emulsion vor.

Das **Jahreskolloquium 2012 des SPP Prozess-Spray** wird in den Rahmen dieses Spray-Workshops gestellt, um das Thema der Fluidzerstäubung in breiter Anwendung vorzustellen und zu diskutieren.

**Beiträge aus allen Bereichen der Zerstäubung von Fluiden und der Sprayanwendungen sind für diesen Spray-Workshop sehr willkommen.**

# SPRAY 2012

## 10. Workshop

über **Sprays, Techniken der Fluidzerstäubung**  
und **Untersuchungen von Sprühvorgängen**

TU Berlin

21. - 22. Mai 2012

### Zeitplan:

Vorträge und Posterschau:

21. Mai 2012 (ab ca. 9:00 Uhr) bis 22. Mai 2012 (bis ca. 17:00 Uhr)

### Veranstaltungsort:

Konrad-Zuse-Zentrum für Informationstechnik Berlin (ZIB)

Takustraße 7, 14195 Berlin

[www.zib.de](http://www.zib.de)

### Organisation:

Prof. Dr. Stephan Drusch (TU Berlin)

Prof. Dr.-Ing. Udo Fritsching (Universität Bremen)

### Anmeldung von Beiträgen:

bis zum 15.3.2012 (mit ca. 1 Seite Abstract, pdf)

### Beitrag / Vortrag einzureichen:

bis zum 30.4.2012 (ca. 4-8 Seiten, pdf)

### Teilnahmegebühr:

€ 190,00 (inkl. Book of Abstracts, CD der Beiträge, Pausengetränke,  
2 x Mittagessen, Abendveranstaltung am 21.5.2012)

**A 2-DAY SHORT COURSE  
FOR DEVELOPERS & USERS  
OF SPRAY SYSTEMS**



**"SPRAY & AEROSOL TECHNOLOGY"**

*To be held in  
Manchester UK ,  
18th-19th April  
2012*

*We are still accepting  
registrations at the Early  
Bird discounted rate:  
For full information and  
to register please go to  
[www.perdac.com](http://www.perdac.com)*



