



## Second Announcement

### International Retreat on Vorticity Aerodynamics

August 22-24, The Summer Palace, Beijing, China

An international retreat on vorticity aerodynamics (IRVA), Beijing, China, will be held in late August. The Retreat will bring together, from various points of the world, scholars and teachers of vorticity dynamics for intensive discussions of this subject, with focal applications in aerodynamics, vortex instability, and vortical flow control.

The IRVA is the outgrowth of three previous retreats on vorticity dynamics held in Beijing for Chinese scientists and graduate students. The IRVA will provide the international community in vorticity dynamics a forum for dialogue and personal interaction. Speakers at IRVA are encouraged to discuss, in addition to research accomplishments, topics normally excluded from formal technical presentations: open issues and challenges deserving further research effort, promising applications of vorticity dynamics, pitfalls to avoid, etc.

The Retreat will feature keynote lectures, regular lectures, and poster presentations. To facilitate the sharing of ideas, formal presentations will be allocated approximately one half of the time of each technical session. The remaining time will be for audience participation: questions, answers, and brief remarks from the audience. In addition to technical sessions, evening programs and post-retreat excursions will provide opportunities for exchange of thoughts in less formal surroundings.

The International Scientific Committee and Local Technical Committee of the IRVA believe that the best avenue into the understanding of the flight of aerial animals and the swimming of aquatic animals is through vorticity dynamics, and such understanding will lead to improvements in the design of future aircraft and spacecraft. It is hoped that IRVA will enhance the research interest and experience of the participants.

#### **Focal Topics**

- (1) Vorticity-based aerodynamics,
- (2) Vortex instability,
- (3) Vortical-flow control.

#### **International Scientific Committee:**

Z.S. She (Chairman, Peking University)  
C. Tung (Co-Chairman, NASA Ames Research Center)  
C.C. Chang (National Taiwan University)  
D. Henningson (Royal Institute of Technology, KTH)



F. Hussain (University of Huston)  
S. Kida (Kyoto University)  
B.R. Noack (Berlin Institute of Technology)  
P. Orlandi (University of Rome)  
M. Sun (Beijing University of Aeronautics and Astronautics)  
Z.N. Wu (Tsinghua University)  
V. Yang (Georgia Institute of Technology)

**Local Technical Committee:**

Jie-Zhi Wu (Chairman, Peking University)  
Guo-Liang Mao (Co-Chairman, China Academy of Aerospace Aerodynamics)  
Guo-Wei He (Chinese Academy of Sciences)  
Hong Liu (Shanghai Jiao Tong University)  
Xi-Yun Lu (University of Science and Technology of China)  
Xiao Ming (Nanjing University of Aeronautics and Astronautics)  
Mao Sun (Beijing University of Aeronautics and Astronautics)  
Jian-Jun Tao (Peking University)  
Chui-Jie Wu (Dalian University of Technology)  
Zi-Niu Wu (Tsinghua University)

**Sponsors:**

1. State Key Laboratory for Turbulence and Complex System, College of Engineering, Peking University
2. Institute of Aerodynamics Theories and Application, China Academy of Aerospace Aerodynamics
3. School of Aeronautics and Astronautics, Shanghai Jiao Tong University

**Location:** Beijing Xiangqing Commercial House (4 star).

**Registration Fee**

Non-student (450 US Dollars or 3000RMB)

Student (250 US Dollars or 1500RMB)

**Lodging (4star)**

400RMB/room/night (60 US Dollars)

**Schedule (Preliminary)**

- (1) Two 45-minute keynote speeches followed by 15-minute discussion for each.

**Opening lecture:** J.C. Wu, Professor Emeritus of Georgia Inst. Tech., Guest Professor of Shanghai Jiaotong University, China

**Closing lecture:** Fazle Hussain, Professor of University of Huston, USA

- (2) 20-minute invited talks, each being followed by 20-minute discussion.

**Partial List of Invited speakers:** Feng Bao, Arie Biesheuvel, Christian Breitsamter, George F. Carnevale, Timothy E. Colonius, Thomas Gerz, Mory Gharib, Xiao Ming, Paolo Orlandi, Kamran Rokhsaz, Mao Sun, Shi-Xiao Wang, Zi-Niu Wu, Jie-Zhi Wu,

- (3) A number of 5-minute prepared talks inserted in the discussion;

- (4) Poster presentations, 2-minute oral introduction;

- (5) 2-hour Panel Discussion.

- (6) A half day tour to The Summer Palace, Beijing (Optional)



**Call for presentations:** IRVA is now continuing seeking for contributions to invited talks and poster presentations. Those who wish to contribute are welcome to submit an abstract to LTC (see below).

**Preferred presentation style:**

- a) **Bridging fundamental and applied researches:** Scientists interested in attacking engineering problems at fundamental level, and research engineers interested in sharper weapons and deeper insight to their problems, are most welcome.
- b) **Focused on interesting new results and their underlying physics,** rather than the methods and tools (e.g., numerical or experimental) by which the results are obtained.
- c) **Those who are willing to share with attendees their unsolved problems and find hints through brain storming are very welcome.**

**Publication**

No Proceedings will be published. Those speakers and authors of posters who wish to publish their presentations in a special issue of *Acta Mechanica Sinica* should submit full papers. The submission will be collected and peer reviewed. Accepted ones will be published.

**Financial support**

- (1) Expenses of Keynote speakers are covered
- (2) Domestic expenses of invited foreign speakers are covered.
- (3) Foreign speakers who are lacking fund to travel may apply for support and will be considered case by case.

**Important dates**

<b>Deadline of Abstracts Submission (e-mail to Prof. J. Tao: <a href="mailto:jjtao@pku.edu.cn">jjtao@pku.edu.cn</a>)</b>	<b>10 May 2009</b>
<b>Notification of Acceptance as Invited Talks or Poster Presentations</b>	<b>30 May 2009</b>
<b>Registration (e-mail to Ms. G. Q. Chen: <a href="mailto:guangqiangchen@sina.com">guangqiangchen@sina.com</a>)</b>	<b>starting from 1 June 2009</b>
<b>Single-Session Retreat Dates</b>	<b>22-24 August 2009</b>
<b>Deadline of Full Paper Submission for Publication in Acta Mech. Sinica (e-mail to Prof. J. Tao: <a href="mailto:jjtao@pku.edu.cn">jjtao@pku.edu.cn</a>)</b>	<b>20 September 2009</b>

\*Each abstract must be written in English with the paper title, author's name, affiliation, e-mail address, key words, approximately 500 words text and a key figure using A4 or letter-size paper. All abstracts and full papers are emailed to [jjtao@pku.edu.cn](mailto:jjtao@pku.edu.cn).

**Preliminary Schedule – Overview**

<b>Friday, August 21</b>	9:00-18:00	Registration
	18:00-19:00	Welcome dinner
	19:30-20:30	ISC-LTC meeting
<b>Saturday, August 22</b>	08:00-09:00	Opening Lecture by Prof. J.C.Wu
	09:00-12:00	Invited Talks(4 talks)
	14:00-16:00	Invited Talks(4 talks)
	16:00-16:40	Introduction to Posters(18 Posters)
	16:40-18:00	Posters
<b>Sunday, August 23</b>	08:00-12:00	Invited Talks(6 talks)
	14:00-16:40	Invited Talks(4 talks)
	17:00-18:00	Closing Lecture by Prof. F.Hussain
<b>Monday, August 24</b>	08:30-10:30	Panel Discussion
	14:00-18:00	Conference Tour

Subject to change

**Contact:**



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Conference secretary: G. Q. Chen, [guangqiangchen@sina.com](mailto:guangqiangchen@sina.com), CAAA

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