

Report

The 8th Asian Symposium on Visualization

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Abstract: The 8th Asian Symposium on Visualization (8ASV) was successfully held in Chiangmai, Thailand from 23rd to 27th May 2005. The total number of 114 participants attended the symposium of which, 82 were foreign participants from 11 countries (excluding Thailand) worldwide. There were 71 papers covering broad range of topics presented at the Symposium in 4 parallel x 6 sessions and 9 keynote papers.

Keywords: Visualization, Asian Symposium, Chiangmai, Thailand.

1. Introduction

The 8th Asian Symposium on Visualization (8ASV) was successfully held from 23rd to 27th May 2005 at the Empress Hotel in Chiangmai, Thailand. This Symposium is the latest in the series of Asian Symposium of Visualization, which was first held in Beijing, China (1988) and successively in Hangzhou, China (1992), Chiba, Japan (1994), Beijing, China (1996), Bali, Indonesia (1999), Pusan, Korea (2001) and Singapore (2003).

The main aim of the Symposia is to provide a forum for researcher and practitioners to communicate and exchange information in the field of visualization applied over a wide range of disciplines which utilizes this technique such as, acoustics, aerodynamics, bio-fluid mechanics, environmental fluid mechanics, fluid machinery, flow past bluff bodies and sports balls, internal combustion engines, jet flows, microstructure of alloy, micro and nano channel flows, vortex flows and many others.

The total number of 114 participants attended the 8ASV of which, 82 were foreign participants from 11 countries (excluding Thailand) worldwide. There were 71 papers covering a broad range of topics and visualization techniques were presented at the 8ASV in 4 parallel x 6 sessions. Nine keynote papers by distinguished speakers from various parts of the world were delivered.

2. Opening Ceremony

The Opening Ceremony of 8ASV was held at the Imperial Grand Ballroom, the Empress Hotel in the morning of Tuesday 24th May 2005. Prof. S. Chanchaona, Senior Vice President of King Mongkut's

University of Technology Thonburi was the Guest of Honour at the Opening Ceremony.

Prof. B. Suwantragul, the Chairman of the 8ASV Organizing Committee welcome all the 8ASV delegates and thanked them for their support. Prof. Y. Nakayama, an initiator of ASV series gave a brief account on the history of ASV. Prof. S. Chanchaona delivered a brief message and then formally opened the 8ASV.



Fig. 1. Opening Ceremony by Prof. Somchai Chanchaona, Senior Vice President of KMUTT.

After taking the group photograph of 8ASV participants in front of the Empress Hotel, the first Keynote Lecture was delivered by Prof. Y. Nakayama, Honorary Chairman of ASV and Future Technology Research Institute, Japan. The details of all the Keynote Lectures are given in the following.



Fig. 2. Prof. Yasuki Nakayama, an initiator of the ASV series, delivering his address at the 8ASV Opening Ceremony.

3. Keynote Lectures

1. **Prof. Y. Nakayama** (Honorary Chairman of ASV and Future Technology Research Institute, Japan)
"Visualization fostered Science and Technology"
 (which was co-authored by **Prof. K. Aoki** and **Prof. M. Oki** of Tokai University, Japan)
2. **Prof. T. Kobayashi** (President, Japan Automobile Research Institute, Japan)
"Computational Visualization Techniques in Automobile Engineering"
 (which was co-authored by **T. Tominaga** of University of Tokyo, Japan)
3. **Prof. B. Soenarko** (Institute of Technology Bandung, Indonesia)
"An Inverse BEM Solution for Acoustic Radiation and Scattering"
 (which was co-authored by **Prof. D. Urika** of Institute of Technology Bandung, Indonesia)
4. **Prof. Sang Joon Lee** (Pohang University of Science and Technology, Korea)
"PIVA to Z"
5. **Prof. Gong Xin Shen** (I. BUAAFFOM, Beijing University of Astronautics and Aeronautics, China)
"Some Discussion on Flow Full Field Observation and Measurement for Unsteady Complex Flows"
6. **Prof V. V. Kozlov** (Institute of Theoretical and Applied Mechanics, SB RAS Novosibirsk, Russia)
"Review of Visualization Techniques in Exploration of Incompressible Shear Flow"
 (which was co-authored by **Yu. A. Litvinenko** and **G. R. Grek** of Institute of Theoretical and Applied Mechanics, SB RAS Novosibirsk, Russia, **V. G. Chernoray** and **L. Loeffdal** of Chalmers University of Technology, Sweden, and **H. CHUN** of Pusan National University, South Korea)
7. **Prof. E. Rathakrishnan** (Indian Institute of Technology Kanpur, India)
"Physics of High-Speed Jet Control"
8. **Prof. S. H. Winoto** (National University of Singapore, Singapore)
"Visualization of Pre-set Wavelength Gortler Vortices"
 (which was co-authored by **H. Mitsudharmadi** and **D. A. Shah** of National University of Singapore, Singapore)
9. **Dr. C. S. Tan** (MIT Gas Turbine Laboratory, USA)
"Modeling, Analysis, Computational and Physical Experimentations in Research"



Fig. 3. Group photograph of 8ASV participants.

4. Technical Papers

A total of 71 technical papers were presented at 8ASV in 4 parallel x 6 sessions. The presentation time for each paper is 20 minutes. The papers cover a broad range of topics as well as visualization techniques. The topics covered include acoustics, aerodynamics, bio-fluid mechanics, environmental fluid mechanics, fluid machinery, flow past bluff bodies and sports balls, internal combustion engines, jet flows, microstructure of alloy, micro and nano channel flows, vortex flows, etc.

The visualization techniques reported in the papers are mainly experimental qualitative techniques using tracers, Particle Image Velocity (PIV) and numerical (computational) methods.



Fig. 4. 8ASV paper presented in a technical session.



Fig. 5. 8ASV International Steering Committee meeting.

All the technical papers are published in full in the Proceedings of the 8th Asian Visualization in the form of CD ROM (ISBN 974-456-621-3). The extended abstracts of papers are also published in hard copy as Proceedings of the Abstract of the 8th Asian Visualization in (ISBN 974-456-620-5). The keynote papers are published in full in both proceedings. The proceedings were edited by Prof. W. Asvapoositkul, Prof. P. Kaewtatip, Prof. T. Kamnerdthong, Dr. S. Sanitjai and Dr. A. Ruangwiset. Prof. A. Bunyajitradulya, Vice Chairman of 8ASV chaired all the technical committees.

A booklet which contains the Programme of 8ASV as well as all the necessary information was also distributed to the participants together with the Proceedings.

5. Social Programs and Visits

A Welcome Dinner for the participants was held on the evening of 24th May 2005 at Khum Khantok, a grand lanna arts and culture centre. Thai classical dances and fabulous shows as Khon and Klong Sabaad Chai (Drum Show) were presented by talented performers.

The meeting of the 8ASV International Steering Committee was held on the evening of 25th May 2005 followed by the Dinner at a Restaurant in the Empress Hotel. Since this evening was free for the delegates, it was an opportunity for them to visit Chiangmai at night time.

The completion of all technical sessions on 26th May 2005 was followed by the Conference Banquet at Petcharat Room at the Empress Hotel where delegates and their spouses could socially interact over the international menu, and say good-buy.

On 27th May 2005, the last day of 8ASV, cultural tour were organized to visit Doi Sutep Temple, Elephant Training School and Bosang Handicraft Center.



Fig. 6. Thai Classical dance at Welcome Dinner.

6. Next Symposia

The 9th Asian Symposium on Visualization (9ASV) will be held on June 4 - 9, 2007 in Hong Kong SAR, China, under the leadership of Prof. C. T. Hsu of Hong Kong University of Science and Technology. For further information, please contact 9ASV Secretariat, Department of Mechanical Engineering, The Hong Kong University of Science and Technology. (Tel:(852) 2358 7184; Fax: (852) 2358 1543; E-mail: 8asv@ust.hk; Webpage: <http://www.me.ust.hk/~9asv>).

The 10th Asian Symposium on Visualization (10ASV) will be held in May 2009 in Chennai (Madras), India.

Author Profile



Banterng Suwantragul: He received his B.Eng. in Mechanical Engineering in 1971 from Chulalongkorn University, Bangkok, Thailand. He also received his M.Sc. in Thermodynamics and related studies in 1974 from University of Birmingham, England. He joined King Mongkut's University of Technology Thonburi in 1971 as a Lecturer. He then became an assistant professor and currently is an associate professor. His current research interests include flow visualization in fan blades and unsteady wave in resonators.