Announcement

• The 18th Annual General Meeting of TAAR will be held on October 13, 2011. All members are encouraged to attend.

• We cordially invite you to participate in the 2011 International Conference on Aerosol Science and Technology. The Conference will be held from October 12 to 14, 2011 at the National Cheng Kung University, Tainan City, Taiwan. For more information please visit: http://awmasctaar2011.serc.ncku.edu.tw/.

• “2011 Youngster Aerosol Activity” will be held on October 12-14, 2011. We welcome all college students and graduate students to attend.

• The logo of “Aerosol and Air Quality Research AAQR” has been approved and registered by the Intellectual Property Office, R.O.C.

We would like to invite all of the members to share your research or new aerosol knowledge with us. Thank you very much for your support and help.

Best wishes to you and your family!
**Name:** Charles C.-K. Chou  
**Current Position:** Associate Research Fellow, Research Center for Environmental Changes, Academia Sinica  
**Education:** Ph. D. in Environmental Engineering, National Central University  
**E-mail:** ckchou@rcec.sinica.edu.tw

**Research topics:**

1. **Investigation on the concentration and composition of aerosols in Taiwan**

   In collaboration with six major universities in Taiwan, we collect aerosol samples over the Taiwan-Penghu area every month since March 2002. The mass concentrations of PM$_{10}$ and PM$_{2.5}$, and the major constituents in the particulate matters are measured. It is the first time we have such a long-term network database of aerosol composition in Taiwan. The major results from this network study have substantially improved our understandings on the spatial distribution and seasonal variations of the atmospheric aerosols, which have important implications for the local air quality as well as the regional climate. For instance, the figure illustrates the averaged composition of PM$_{10}$ in Taiwan for 2003-2009. From the aerosol map, it was found a significant contrast in the concentration and composition between urban and rural areas, indicating the impacts of urbanization to the ambient levels of aerosols. Besides the urban-rural contrast, some aerosol species exhibit strong north-south gradients. In particular, a significant linear correlation between the concentrations of nitrate and the mixing ratios of ozone was revealed, suggesting that the nitrate aerosols were produced from the photo-oxidation of NOx emitted from local sources. Similar spatial features were also found in the ratio of organic carbon to elemental carbon, implying the vigorous production of secondary organic aerosols in southern Taiwan. In terms of seasonal variations, it was found that the aerosol concentrations at respective stations exhibited minima in the summer consistently, but maxima in winter or springtime. The shift of seasonal maxima from winter to spring in the northern Taiwan was probably caused by the Asian continental pollution outbreaks. Moreover, the phase partition of semi-volatile species could also have substantial influences upon the seasonality of aerosols.

2. **Optical and microphysical properties of urban aerosols**

   Tropospheric aerosols have been recognized as one of the critical components in the radiation balance of the earth-atmosphere system. However, to date, there is a substantial knowledge gap in the climate forcing...
mechanisms of aerosols. Consequently, the aerosol field was identified as the major source of the uncertainties in the simulation of climate. The uncertainties in the estimates of the aerosol radiative forcing are due mostly to the variations in the amount and the physical/chemical characteristics of aerosols on different temporal and spatial scales, particularly within the boundary layer. Besides, the uncertainties are also attributed to the deficiency in the fundamental understandings of the physico-chemical behavior of aerosols. Among the properties of aerosols, the optical ones are relevant most directly to the assessment of the radiation perturbation for aerosols. This work is on the measurement of the chemical composition and the microphysical/optical properties of urban aerosols. The field experiments were carried out at the observatory located on the campus of the National Taiwan University in Taipei, Taiwan. The objectives of this work include improving our understandings of the microphysical and/or optical characteristics of urban aerosols and the associated variations, and of the influences of chemical composition and microphysical properties on the optical behavior of aerosols. The figure depicts the time series of the light scattering and absorption coefficients of aerosols for December 1-5, 2007. It was found that both scattering/absorption coefficients increased abruptly due to the impacts of Asian outflow aerosols. However, the concentration of black carbon aerosols from urban sources was the dominant factor of the variations in the light absorption efficiency of aerosols.
Title: Assessing Nanoparticle Risks to Human Health
Author: Gurumurthy Ramachandran
Hardcover: 400 pages
Publisher: William Andrew; 1 edition (September 23, 2011)
Language: English
ISBN-10: 1437778631

Description:
The book will take a systematic look at nanoparticle risks within the paradigm of risk assessment, consider the limitations of this paradigm in dealing with the extreme uncertainties regarding many aspects of nanoparticle exposure and toxicity, and suggest new methods for assessing and managing risks in this context. It will consider the occupational environment where the potential for human exposure is the greatest as well as the issues relevant to occupational exposure assessment (e.g., the exposure metric) and the evidence from toxicological and epidemiological studies.

A chapter will be devoted to how conventional risk assessment can be carried out for a candidate nanoparticle (e.g., carbon nanotubes), and the limitations that arise from this approach. We will propose several alternate methods in another chapter including screening assessments and adapting the rich methodological literature on the use of experts for risk assessment. Another chapter will deal with non-occupational populations, their susceptibilities, and life-cycle risk assessments. There will be a chapter on current risk management and regulatory oversight frameworks and their adequacy. This chapter will also include a discussion of US and EU approaches to risk assessment, as well as corporate approaches.

Title: Technical Challenges of Multipollutant Air Quality Management
Editors: George M. Hidy, Jeffrey R. Brook, Kenneth L. Demerjian, Luisa T. Molina, William T. Pennell, Richard D. Scheffe
Hardcover: 580 pages
Publisher: Springer; 2011 edition (August 4, 2011)
Language: English
ISBN-10: 9400703031

Description:
Recent critiques of air quality management approaches currently employed in developed and many developing countries have suggested that efficiencies could be achieved if air quality management practices
shifted from pollutant-by-pollutant approaches to a comprehensive multipollutant approach in which emission reduction decisions are based on relative risk and evaluated on their effectiveness in meeting environmental and health goals. This book assesses our technical readiness to undertake such an approach, and it outlines the technical developments that will be needed to achieve a risk-based approach air quality management that includes means for measuring the effectiveness of management decisions.

Title: Aerosol Measurement: Principles, Techniques, and Applications
Editors: Pramod Kulkarni, Paul A. Baron, Klaus Willeke
Hardcover: 940 pages
Publisher: Wiley; 3 edition (July 12, 2011)
Language: English
ISBN-10: 0470387416

Description: From the Back Cover
The most comprehensive text on state-of-the-art aerosol measurement methods. Drawing on the know-how of numerous leading experts, Aerosol Measurement: Principles, Techniques, and Applications, Third Edition provides a solid grasp of aerosol measurement fundamentals and presents a wide variety of measurement techniques and their real-world applications. Aerosol measurement has assumed critical importance in many fields including industrial hygiene, public health and epidemiology, atmospheric science, climate research, material science, powder technology, nanotechnology, filtration, particle toxicology, and medicine. As a result, the need to conduct reliable aerosol measurement has increased dramatically in recent years, making this new edition more valuable than ever. The revised and expanded third edition includes many new and developing topics such as measurement of macromolecules and sub-3 nanometer particles, new particle formation, advances in aerosol mass spectrometry, electrospray and its applications, electrical-sensing aerosol instruments, satellite-based aerosol measurement, and health effects of nanoparticles.

Title: Persistent Pollution - Past, Present and Future
Editors: Markus Quante, Ralf Ebinghaus, Götz Flöser
Hardcover: 433 pages
Publisher: Springer; 1st Edition. edition (June 28, 2011)
Language: English
ISBN-10: 3642174205

Description: From the Back Cover
This book evolved from the 5th School of Environmental Research entitled „Persistent Pollution – Past, Present and Future“, which has set a focus on Persistent Organic Pollutants (POPs), heavy metals and aerosols. Research topics covered by the School included the reconstruction of past changes based on the scientific analysis of natural archives such as ice cores and peat deposits, evaluation of the present environmental state by the integration of measurements and modelling and the establishment of cause-effect-patterns, assessment of possible environmental future scenarios including emission and climate change perspectives. Leading scientists in the field of Marine and Atmospheric Chemistry, Meteorology and Modelling, Environmental Chemistry and Physics, as well as Environmental Policy and Management have prepared manuscripts. The book consists of 19 contributions prepared by more than 40 authors. The structure of the book has been outlined according to the topics addressed by the School and includes synthesis chapters which look into the history and reconstruction of environmental pollution, address emission questions, provide a closer look on selected persistent pollutants, deal with transport and modelling aspects, shed light on some health issues related to persistent pollutants, and discuss emerging contaminants in the atmospheric and marine environment.
<table>
<thead>
<tr>
<th>Conference Schedule</th>
<th>Name of Conference</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>September 4-9, 2011</td>
<td>European Aerosol Conference 2011 (EAC 2011)</td>
<td>Manchester, UK</td>
</tr>
<tr>
<td>October 3-7, 2011</td>
<td>AAAR 30th Annual Conference</td>
<td>Orlando, Florida, USA</td>
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<tr>
<td>October 12-14, 2011</td>
<td>2011 International Conference on Aerosol Science and Technology</td>
<td>Tainan, Taiwan</td>
</tr>
<tr>
<td>November 30-December 2, 2011</td>
<td>International Aerosol Modeling Algorithms Conference</td>
<td>Davis, CA, USA</td>
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<td></td>
<td><a href="https://sites.google.com/site/iamaconf2011/">https://sites.google.com/site/iamaconf2011/</a></td>
<td></td>
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<tr>
<td>March 19-23, 2012</td>
<td>8th International Conference on Air Quality - Science and Application</td>
<td>Athens, Greece</td>
</tr>
<tr>
<td>July 2-5, 2012</td>
<td>5th Asian Particle Technology Symposium (APT2012)</td>
<td>Singapore</td>
</tr>
<tr>
<td>October 8-12, 2012</td>
<td>AAAR 31th Annual Conference</td>
<td>Minneapolis, Minnesota, USA</td>
</tr>
<tr>
<td>August 31-September 5, 2014</td>
<td>International Aerosol Conference IAC 2014</td>
<td>Busan, Korea</td>
</tr>
</tbody>
</table>
2011 International Conference on Aerosol Science and Technology

Conference Date: 12-14 October 2011
Abstract Submission Deadline: 15 August 2011
Hosted by: Taiwan Association for Aerosol Research
And
Department of Environmental Engineering,
National Cheng Kung University
Tainan City, Taiwan
Second Announcement

Call for Paper

Website: http://awmasctaar2011.serc.ncku.edu.tw
Contact Person: Dr. Sheng-Lun Lin
Email: 2011icast@gmail.com
Tel: +886 6 209 3155; Fax: +886 6 275 2790
Taiwan Association for Aerosol Research (TAAR) and Department of Environmental Engineering, National Cheng Kung University are pleased to invite you to submit papers and participate in the 2011 International Conference on Aerosol Science and Technology (2011 ICAST), which will be held at National Cheng Kung University (NCKU), Tainan City 70101, Taiwan, on 12-14 October 2011. This conference will cover a wide range of fundamental and applied aspects of aerosol science and technology, atmospheric science, air quality and air pollution control. The conference emphasizes interdisciplinary research as well as practices, and fosters exchanges among researchers, policy makers, corporate managers, practitioners and professionals who are concerned with the above aspects. All interested participants are invited to submit and present the latest results of their scientific and practical work in one of the conference topical areas.

Technical Program

2011 International Conference on Aerosol Science and Technology (2011 ICAST) will cover all aspects of aerosol science and technology, atmospheric science, air quality and air pollution control related issues. It encompasses a multi-disciplinary field, including:

1. Sources, combustion, thermal decomposition, emission, properties, behavior, formation, transport, deposition, measurement and analysis
2. Air quality standard for PM 2.5
3. Effects on human health, plants and environments
4. Air pollution control technologies
5. Invention and improvement of sampling instruments and technologies
6. Air quality, atmospheric chemistry and global change
7. Nanoparticle and nanotechnology
8. Air control strategies for industrial and mobile sources
9. Hazardous air pollutants
10. Bioaerosol
11. Indoor air quality
12. Air pollutant emissions from green energy sources
13. Other topics related to aerosol and air quality

The technical program will consist of invited plenary lectures, platform presentations, panel discussions, and poster presentations. Exhibition will be in place for organizations and companies to demonstrate their programs, products, and expertise.
Paper Abstract Submission

- All interested researchers, professionals and practitioners are invited to present the results of their recent work in one of the conference topics listed above. The abstract of the paper is to be submitted before 15 August 2011.
- The paper abstract will be reviewed by the Technical Program Committee (TPC) on strictly scientific grounds. The decision will be communicated to the authors within 4 weeks after receiving the submitted abstract, no later than 20 August 2011.
- Instructions for preparing and submitting the paper abstract are given on the conference website http://www.awmasc2011.serc.ncku.edu.tw/. Upon receiving the notice of abstract acceptance from the TPC, the authors are required to prepare a oral (in power-point form) or poster presentation material, to be delivered at the conference site.
- The paper abstract have to be submitted by online submission system.
- Subsequent to the conference, selected papers will be invited to submit a full manuscript for consideration of publication in a special issue of the SCIE international journal, Aerosol and Air Quality Research.

Conference Venue

2011 International Conference on Aerosol Science and Technology (2011 ICAST) will be held from 12-14 October 2011 in the International Conference Hall, National Cheng Kung University (NCKU), Tainan City, the ancient capital of Taiwan. For the detail information of conference venue, please see the web site (http://www.ncku.edu.tw). NCKU is conveniently located near the Tainan Train Station, with easy access to Taiwan High Speed Rail System which will bring you from Kaohsiung International Airport or Taoyuan International Airport to NCKU in about 1 to 2 hours. The main lecture theater is which has seating for up to 250 delegates in each of the three meeting rooms.

About Tainan - City of History and Delicacies

Tainan City is a city in southern Taiwan, facing the Taiwan Strait in the west and south. Tainan's complex history of comebacks, redefinitions and renewals inspires its popular nickname "City of the Phoenix". During the past 400 years of Taiwan’s recent development enriched by influences of Dutch, Ming, Qing, Japan until Republic of China, Tainan has been historically regarded as one of the oldest cities in Taiwan. Its former name, Tayouan, has been claimed to be the source of the name Taiwan. It is also a cultural capital of Taiwan, as it houses the first Confucian school–temple, built in 1665, the remains of the Eastern and Southern gates of the old city, and countless other historical monuments. The city is also famous for its local snack food and night markets. Tainan claims more Buddhist and Taoist temples than any other city in Taiwan.
Confucius Temple

Black-faced Spoonbill (*Platalea minor*)

National Museum of Taiwan Literature

Fort Provintia
Accommodation

Accommodation will be arranged by the Conference Secretariat and booked through the conference website http://www.awmasc2011.serc.ncku.edu.tw/. Top quality hotels are available at reasonable price. Among these, Zenda Hotel and Shangrila Hotel are in five-minute walking distance to the conference venue.

Shangrila Hotel
Single Room  3,100 TWD  (Tax including)
Double Room  3,600 TWD  (Tax including)
Website: http://www.shangri-la.com/en/property/taian/fareasternplaza

Hotel Tainan
Single Room  2,100 TWD  (Tax including)
Double Room  2,500 TWD  (Tax including)
Website: http://www.hotel-tainan.com.tw/

Zenda Suites
Single Room  2,340 TWD  (Tax including)
Double Room  2,925 TWD  (Tax including)
Website: http://www.zendasuites.com.tw/en/about.php

Travel

Local Transportation 1 - Taoyuan International Airport (TPE)
- Take a shuttle Bus from Taoyuan International Airport to Taiwan High Speed Rail (THRS) Taoyuan Station, then
- Take Taiwan High Speed Rail to Tainan Station. Please follow the direction for taking high speed rail to Tainan.

Transportation from Taoyuan International Airport (TPE) to High Speed Rail (HRS) Taoyuan Station (http://www.taoyuan-airport.com/english/Publish.jsp?cnid=1226)
High Speed Rail to Tainan (http://www.thsrc.com.tw/en/?lc=en): First train from Taoyuan to Tainan departs at 0652h and arrives at 0816h. Last train from Taoyuan to Tainan departs at 2231h and arrives at 2346h. Two runs every hour. Fare: NT$770-1350 (Standard Class, adult; fare depends on departure time; major credit cards accepted). Duration: 83 mins.

Local Transportation 2 - Kaohsiung International Airport (KHH)
- Drive to NCKU: Takes 1 hour, or
- Take KRTC (Metro) to Kaohsiung Main Station, then take train to Tainan. See following website link for details:
  (http://www.kia.gov.tw/english/e_content/traffic.asp)
How to go to NCKU?

NCKU is in short walking distance from the rear gate of TRA Tainan Station, reachable via following options.

- **By Train from TRA Shalun Station (neighboring THSR Tainan Station)**
  1. Take train at TRA Shalun Station which departs every 30 minutes. The ride to TRA Tainan Station is about 20 mins.
  2. NCKU is located on Ta-Shueh (University) Road about 100m from the rear entrance of TRA Tainan Station. The conference venue is in Kuang-Fu Campus of NCKU.
  3. Hotel Tainan is located on the front side, while Shangrila Hotel and Zenda Suites are located on the rear side of TRA Tainan Station.

For more information on the train to / from THSR Tainan Station: [http://wn.com/Shalun_Line](http://wn.com/Shalun_Line)

- **From Kaohsiung International Airport (KHH)**
  1. Take Kaohsiung MRT from the Airport Station (R4) to TRA Kaohsiung Main Station (R11), or THSR Zuoying THSR Station (R16).
  2. (a) Take TRA from Kaohsiung Main Station to Tainan Station, which usually takes about 35 minutes on express trains, or
  (b) Take the THSR Train from Zuoying Station to Tainan Station; traveling time is 12 minutes. Then take train from TRA Shalun Station to Tainan Station as described above.

- **From Taoyuan International Airport (TPE)**
  1. Take a taxi or shuttle bus from the airport to THSR Taoyuan Station, which takes about 20 minutes.
  2. Take THSR train from Taoyuan Station to Tainan Station; traveling time is 82 minutes. Then take train from TRA Shalun Station to Tainan Station as described above.

**Visa and Letters of Invitation**

A visa is not required for citizens of 38 countries, although visitors’ passports must have a validity of at least 6 months after entry. Please view/download information from website below.

### Registration Fee

<table>
<thead>
<tr>
<th>Status</th>
<th>Before 31 August 2011</th>
<th>Before 20 September 2011</th>
<th>On Site Registration</th>
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<tr>
<td>Tutorial Program (12 October 2011)</td>
<td>NTD 1000.-</td>
<td>NTD 1500.-</td>
<td>NTD 2000.-</td>
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<td>TAAR Members (13 and 14 October 2011)</td>
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<td>NTD 2500.-</td>
<td>NTD 3000.-</td>
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<tr>
<td>TAAR Members (12-14 October 2011)</td>
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<td>NTD 3500.-</td>
<td>NTD 4000.-</td>
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<td>Non-TAAR members (13 and 14 October 2011)</td>
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<td>Non-TAAR members (12-14 October 2011)</td>
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<td>NTD 4000.-</td>
<td>NTD 4500.-</td>
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<td>Students (13 and 14 October 2011)</td>
<td>NTD 1500.-</td>
<td>NTD 2000.-</td>
<td>NTD 2500.-</td>
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<td>Students (12-14 October 2011)</td>
<td>NTD 2500.-</td>
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</tbody>
</table>

### Dates and Deadlines

- **Abstract Submission Deadline:** 15 August 2011
- **Review Decision Announcement:** 20 August 2011
- **Early Bird Registration:** Before 31 August 2011

### Contact

**Dr. Sheng-Lun Lin**  
Conference General Secretary  
Department of Environmental Engineering, National Cheng Kung University, Tainan City 70101,  
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Mobile Phone: +886 910 873 823  
Fax: +886 6 275 2790  
**E-mail:** 2011icast@gmail.com

**Conference Website:** [http://awmasctaar2011.serc.ncku.edu.tw](http://awmasctaar2011.serc.ncku.edu.tw)
FIRST CIRCULAR
CALL FOR PAPERS

The 5th Asian Particle Technology Symposium (APT2012)
National University of Singapore, 2 – 5 July 2012

Conference Theme:
Particle Technology: Fundamentals and Applications for Nanotechnology, Biomedicine and Energy Research in the 21st Century

WELCOME

Particle Technology has emerged as a separate discipline in its own right; a body of knowledge which has its own unique paradigm of describing, modelling and controlling phenomena involving a wide variety of discrete entities and their interaction with the medium. Knowledge and expertise in particle technology is extremely important for several industries such as mineral processing and metal extraction, powder metallurgy, cement, drugs and pharmaceuticals, fertilizers, chemicals, detergents and paints and pigments. Considering the importance of this field to our industry, a number of experts in particle science and technology worldwide, in particular from Japan and other Asian countries took the initiative of starting the Asian Particle Technology (APT) Series of symposia. The first APT symposium was held in Bangkok, Thailand in 2000, followed by APT 2003 in Penang, Malaysia, APT 2007 in Beijing, China and APT 2009 in New Delhi, India. We cordially invite you to participate in APT 2012 to be organized for the first time in Singapore.

SCOPE

The conference will include, but not be limited to, technical sessions on the following topics:
• Production of particles (crystallization, atomization, mechanical activation, synthesis in aerosol flame, sol-gel and microemulsion reactors)
• Comminution (crushing, grinding, high energy milling, attrition and erosion)
• Agglomeration (granulation, pelletization, briquetting, tableting, sintering)
• Bulk powder handling (storage, dust collection and transportation)
• Mixing, granular flow and fluidization
• Roasting, combustion and smelting reduction
• Solid-solid and solid-liquid separation (gravity, electrostatic, magnetic and flotation separation, filtration, drying, membrane separation, thickening)
• Colloidal processing (dispersion, flocculation and rheology of suspensions)
• Particle coating and surface modification
• Packing and consolidation of particles in dry/wet conditions
• Recycling and reclamation (electronic waste, tailings management, eco-cements)
• Design of equipment handling powders, emulsions and aerosols
• Modelling and simulation (CFD, DEM, population balances, molecular modelling, Monte Carlo)
• Process optimization and advanced control (measurement, automation and soft-sensors)
• Process Analytical Technologies (PAT), in-process particle characterization techniques

CALL FOR PAPERS

Authors are invited to submit a one-page abstract in English for each paper they wish to present. The abstract should include title, names and affiliations of authors (including e-mail address of the corresponding author) and 3 to 5 keywords. All submissions must be submitted online via the website and will be peer-reviewed. The abstract submission system will be available from 1 July 2011.
IMPORTANT DATES

1 Jul 2011  Opening of the on-line Abstract Submission System
10 Jan 2012  Deadline for receipt of one-page abstract
15 Feb 2012  Notification for abstract acceptance with instructions for manuscript preparation
15 Apr 2012  Deadline for receipt of camera-ready manuscript in final version for the proceedings and author registration
2 July 2012  Commencement of the conference

CONFERENCE CHAIR/CO-CHAIR

Chi-Hwa WANG, Ph.D.
Department of Chemical & Biomolecular Engineering
National University of Singapore

Reginald Beng Hee TAN, Ph.D.
1. Department of Chemical & Biomolecular Engineering, National University of Singapore
2. Institute of Chemical and Engineering Sciences, A*STAR

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National University of Singapore

Chair, Banquet and Reception
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Institute of High Performance Computing, A*STAR

About Singapore

Unique is the word that best captures Singapore, a dynamic city rich in contrast and color where you’ll find a harmonious blend of culture, cuisine, arts and architecture. Singapore has grown into a thriving centre of commerce and industry. Located in the heart of fascinating Southeast Asia, Singapore is the busiest port in the world with over 600 shipping lines sending super tankers, container ships and passenger liners to share. Brimming with unbridled energy and bursting with exciting events, the city offers countless unique, memorable experiences waiting to be discovered. For more information on Singapore, please visit: http://www.visitsingapore.com/mice/

CONFERENCE SECRETARIAT

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National University of Singapore
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Fax: +65 6874 5097
Email: APT2012@nus.edu.sg
www.apt2012.org