Following two previous successful events, which took place in Bangkok, Thailand (2006) and Danang, Vietnam (2008), we are taking the next event in this series to Malaysia, a country in the heart of South East Asia with a long history of hydropower development – and to the State of Sarawak which is deeply committed to renewable energy development.

The Conference is being hosted in partnership with Sarawak Energy and is supported by the Ministry of Public Utilities, Sarawak Hidro and Tenaga Nasional Berhad. Speakers will represent the major water and energy utilities of the Asia and Pacific regions, as well as financiers, environmental specialists, and international experts on all aspects of dams, hydropower and other renewable energy sources.

Tours will provide an opportunity to visit some major dams and hydro schemes in operation and under construction in Sarawak, as well as to travel through the jungle and learn about the cultures and traditions of local people.

Delegations from around 50 countries will assemble to discuss all aspects of water resources development of the Asian region.

SUPPORTING ORGANIZATIONS INCLUDE:

PROGRAMME AND REGISTRATION DETAILS
CONFERENCE OBJECTIVES

WATER RESOURCES DEVELOPMENT AND HYDRO IN ASIA

The Asian region is the most active in the world for water resources development, including hydro development. Countries such as China, India, Vietnam, Pakistan, Bhutan and the Russian Federation have vast programmes under way, and many others such as Malaysia, Nepal, Myanmar, Indonesia and a number of Central Asian Republics have major potential and substantial development plans.

AQUA-MEDIA CONFERENCES

Aqua-Media International (Hydropower & Dams) has long experience of organizing major international conferences annually, on hydropower, typically (in recent years) attracting more than 1000 delegates from about 80 countries.

Every two years, the company also organizes regional events in Asia, bringing together around 500-700 international experts. The focus is on issues of specific relevance to the Asia and Pacific regions, where the greatest amount of hydropower development is under way, and where some of the greatest technical challenges lie ahead for the implementation of water infrastructure. Discussions extend beyond hydropower, to other renewable energy systems of all kinds, and water infrastructure for water supply and irrigation.

Typical themes on the agenda are: potential and plans for water resources development; large scale projects, and issues relating to challenging site conditions; rural electrification; sedimentation management; dam safety; flood prediction and mitigation; seismic design of water infrastructure; environmental and social issues, including resettlement; marine energy prospects; hydraulic and electrical machinery; small hydro and pumped storage.

These events are strongly supported by the financing agencies and major water and energy related professional associations such as ICombat, IEA, IEA and ICID, and as well as ESCAP.

ASIA 2006 took place in Bangkok, Thailand, co-hosted by EGAT. A major Workshop on Finance was held alongside the event, by the World Bank. Officers from ESCAP, ADB, FAO, ICOLD, IWRA and ICID participated. ASIA 2008 was held in Danang, Vietnam. The Deputy Prime Minister of Vietnam took part, underlining his government’s support for the event. ASIA 2010 builds on the past experience of these two events, and is once again held in a region which is particularly active in water resources development.

At ASIA 2010, high level officers from ICOLD, ICID, IEA, ESCAP, the World Bank, ADB, JICA, the Mekong River Commission will attend, as well as many government or national utility representatives from all parts of Asia.

WHO SHOULD ATTEND?

If you are active in advancing water resources or renewable energy development projects in the Asia region, whether as an investor, planner, developer, consultant, operator, or equipment supplier, you should be present in Kuching to interact with experts from all parts of the world, and to help the less developed countries of Asia reach their development goals.

INTERNATIONAL STEERING COMMITTEE INCLUDES:

S. Alam, Consultant, France
Dr E. Bellendir, Director, VNIG, Russian Federation
Dr Chen Shu, Sarawak Energy Bhd, Malaysia
J. Cooney, President, ICOLD
Prof Luis Berga, President, ICOLD
L. Chai Kim Pau, Sarawak Energy Bhd, Malaysia
Dao Trong Tu, Director of Operations Division, MRC, Laos
Jean-Michel Devernay, EDF, France
Do Duc Quan, Minister of Public Utilities, Vietnam
Dr Alan Dredge, Consultant, New Zealand
K.B. Dubey, National Thermal Power Corporation, India
Dr Malcolm Dunstan, Consultant, MD&A, UK
M. Fauzi, Ministry of Public Utilities, Malaysia
Brian Forbes, GHD Pty Ltd, Australia
M. Francois, R&D Director, Alstom Power Hydro, France
M. Gopalakrishnan, Secretary General, ICID, India
F. Griffin, Director, Mott MacDonald, UK
J.H. Gummer, Director, Hydro Consult Pty Ltd, Australia
C.R. Head, Consultant, UK
Dr Jia Jinheng, China
D. Kenneally, Technical Director - Hydropower, SMEC, Australia
Prof R. Lafitte, EPFL, Switzerland
Dr Lam Du Son, Vice President, Electricity of Vietnam
Dr Peter Lee, Consultant, UK
F. Lempérière, Director, Hydro Co-op, France

B. Leyland, Consultant, New Zealand
Lin Chuxue, Director, China Three Gorges Project Corp, China
Dr Chandra Madhamaa, Consultant, ICID
Toyoto Matsuzaka, Head of International Affairs, Tepco, Japan
U. Myo Myint, Vice Minister of Electric Power, Myanmar
Mahd Nazri Bin Shahruddin, Tenaga Nasional Bhd, Malaysia
Ir Zulkifle Osman, Sarawak Hidro Sdn Bhd, Malaysia
Niwat Patanasemakul, Director of Hydropower, EGAT, Thailand
A. Palmieri, Lead Dam Specialist, World Bank
Prof Pham Hoang Giang, NARD and VNICOLD, Vietnam
J. Plummer, World Bank & University of Cambridge, UK
Dat Abedul Razak Bin Abdul Majid, Tenaga Nasional Bhd, Malaysia
Chhewang Rinzin, Druk Green Power Corporation Ltd, Bhutan
Dr A. Scuero, Director of Carpi, Italy
Dr V. Semenkov, Consultant OAO Boguchany HES, Russian Federation
N.R. Shrestha, Secretary, Nepal Hydropower Association, Nepal
Toorstein Dale Sjøtveit, CEO, Sarawak Energy Berhad, Malaysia
Dr S. Sparkes, Multiconsult, Norway/Loas
Dr Sompop Sucharit, Royal Irrigation District, Thailand
B. Tardieu, CEO, Covne et Bellier, France
M.S.D. Tsay, Chairman, RAO UES, Russian Federation
C.V. Varma, President, Council of Power Utilites, India
Prof D.A. Williams, CEO, British Hydropower Association, UK
Yong Kiong Choon, Sarawak Energy Bhd, Malaysia
Zuraimy Kushaili, Sarawak Energy Bhd, Malaysia
HYDRO AND WATER RESOURCES IN MALAYSIA

Malaysia has 54 large dams in operation, and a safe drinking water supply in 87 per cent of rural areas (planned to reach 100 per cent by 2020). The country has a long history of hydro development (both large and small schemes), and 29 GW of technically feasible potential: 4 GW in Peninsular Malaysia, 5 GW in Sabah, and 20 GW in Sarawak. Installed hydro capacity is currently about 2000 MW, and more than 3000 MW of hydro capacity is now under construction at Bakun and Murum in Sarawak.

POTENTIAL AND PLANS IN SARAWAK

The State of Sarawak is strongly committed to renewable energy development. The ‘Sarawak Corridor of Renewable Energy’ (SCORE) is one of five major regional development corridors being developed throughout Malaysia. This is a major initiative undertaken to develop the central region of the country, and to transform Sarawak into a fully developed State by 2020. It aims to accelerate the State’s economic growth and development, as well as improving the quality of life of rural people. At the core of this plan is the availability of substantial energy resources, which include hydropower potential equivalent to 28,000 MW.

Sarawak plans to go beyond poverty alleviation, and encourage investment in some energy-intensive industries which will trigger strong economic growth for the region. This could serve as a model for other parts of Asia, where renewable energy potential exists.

KUCHING AS HOST CITY

The colourful town of Kuching has much to offer – elegant architecture, world class hotels where rooms have been blocked for ASIA 2010 participants, lively markets and a bazaar, a tropical landscape along the banks of the Sarawak river, and a new state-of-the-art international congress centre.

Hotel rooms are reserved for delegates, at favourable rates, at the Kuching Pullman, Hilton, Grand Margarita (formerly Holiday Inn), Riverside Majestic (formerly Crowne Plaza), Four Points Sheraton and Harbour View hotels. Most hotels offer rooms overlooking the Sarawak River.

Shuttle buses will be provided to transfer delegates to the Borneo Convention Centre, which is located a short distance from the centre of town, set in its own parkland.

INTO THE HEART OF BORNEO

There are many daily flight connections from Malaysia’s capital city, Kuala Lumpur, to Kuching international airport; flights are also available via Asian cities such as Singapore, Jakarta, Kota Kinabalu and Macau.

For those wishing to add on a holiday before or after the Conference, there are numerous opportunities for relaxation (at luxurious island beach resorts) or adventure (on a kayak along one of the rivers of Borneo, or exploring the tropical rain forest).
### Sunday 28 March

**From 09.00 hrs:**
Registration - BCCK Foyer

**From 10.00 hrs:**
Exhibition set-up - BCCK Great Hall (A+B)

**11.30 hrs:** Excursion departs from BCCK for Sarawak Cultural Village (returns around 15.30 hrs).
The excursion includes lunch.

**16.30 hrs:** BHA Networking Session with refreshments

**19.00 hrs:** Chairmen’s Meeting Meeting Room 2, BCCK

**19.45 hrs:** Speakers’ Briefing Great Hall C, BCCK

**20.15 hrs:** Speakers’ Reception Great Hall Foyer, BCCK

### Monday 29 March

**09.00 - 10.15 hrs:**
Opening Plenary Session

10.15 hrs: Exhibition opens Coffee in the Exhibition Hall

**10.45 hrs:** Parallel sessions 1-3
1. Policy, Potential & Development Plans
2. Dams: Materials and construction
3. Hydraulic Machinery

**14.00 hrs:** Parallel sessions 4-6
4. Finance session + Panel debate
5. Dam Safety
6. Marine Energy + SHP followed by Coffee in the Exhibition Hall

**15.00 hrs:** Parallel sessions 14-16

**17.20-18.00 hrs:** Plenary Closing

### Tuesday 30 March

**08.30 / 09.00 hrs**
Parallel sessions 8-10

8. Environmental Aspects
9. Design and Construction of Water Infrastructure
10. Hydro Technology (O&M, Rehab)

Coffee in the Exhibition Hall (Sessions 8-10 continue)

**13.30 hrs:** Parallel sessions 11-13
11. Social Aspects
12. Hydrology, Floods, Climate Change
13. Renewable Energy Systems

Coffee in the Exhibition Hall Great Hall A+B

**15.00 hrs:** Parallel Sessions 14-16

**19.45 hrs:** Speakers’ Briefing Great Hall C, BCCK (Sessions 7, and 4 + 5 continue)

### Wednesday 31 March

**Study Tour Departures:**
Tour A - Two days (Batang Ai)
Tour B - Three days (Bakun and Murum, via Bintulu)

Delegates wishing to extend their stay in Sarawak may contact Diethelm Sarawak for details of beach resorts, cultural tours or jungle excursions

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### BHA NETWORKING RECEPTION

The British Hydropower Association (BHA), in conjunction with UK Trade & Investment, will be hosting a two-hour Networking Reception on Sunday 28th March. Short introductory remarks will be made by BHA CEO Prof David Williams, and a welcome address will be given by representatives of the British High Commission in Kuala Lumpur. All ASIA 2010 delegates and participants are welcome to this informal reception, where refreshments will be served and British companies specializing in a range of renewable energy technologies will be introduced, and there will then be an opportunity for networking between them and others in the international renewable energy community. Following the successful BHA receptions hosted in previous years, this promises to provide a good opportunity for a fruitful exchange of experience in a convivial atmosphere.
In the head range between 200 and 800 m, the application of either Francis or Pelton units is possible. It cannot automatically be assumed that the Pelton concept is mostly used in the upper part of this head range and the Francis concept in the lower head range. For the economic success of a project, it is vital that the criteria for selecting the most suitable type of turbine are known, understood and respected. However, in the past 30 years the technologies of both Francis and Pelton turbines have been developed further, and it is therefore timely and useful to provide an update on this topic from today’s point of view.

During this Seminar, the technological changes in terms of simulation and application will be highlighted, and criteria for comparison (taking into account performance characteristics, initial investment, operational and safety aspects, abrasion and life time costs) will be discussed.

**Seminar topics**
- Advanced simulation methods for improving efficiency and safety
- Status review of coating technology
- Advanced design of high head Francis turbines
- Pelton or Francis – the best choice in which case?

**Who should attend?**
The seminar is intended to provide an introduction to various topical subjects for hydropower plant owners, developers and investors. Since technical aspects of operational and maintenance aspects are presented, the operators’ experiences will be particularly welcome.

To apply to join this Seminar, please complete the form below.

Places are limited

Application to participate at: the Andritz Hydro Technical Seminar
“Facing the challenges of High Head Machines – recent developments and experiences”
Sunday, 28 March 2010, 16.00 to 18.30 hrs, BCCK, Kuching, Sarawak, Malaysia

Name: ........................................................................  Organization: ...............................................................................  Country: ....................................

Company Address:...................................................................................................................................................................................................
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Tel: ............................................................. Fax: ........................................................ .... Email: .............................................................

Reasons for wishing to join the Seminar:
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Please attach a brief CV to your application. A copy of the form and CV can be faxed to: Margaret Bourke, (Aqua Media International): + 44 20 8643 8200; or, a scanned copy, together with a CV, can be emailed to mb@hydropower-dams.com. Applications should be submitted by 5 March.
MONDAY 29 MARCH - Morning

Session 1: Policy, Potential and Development Plans
Chairman: Dr Jia Jinseng, President, ICOLD and Vice President, IWHR, China

- Advancing sustainable hydropower development in the Lower Mekong Basin — Varadeth Phonekeo, Kao Mouy, Xayphadeth Chouamany and L. Haos, Mekong River Commission
- Hydropower for long-term power generation in Sarawak — Dr Tan Sri Datuk Amar Hajji Hussain and Dr D. Lee Hau Aik, Sarawak Energy Berhad, Malaysia
- Assessment of the hydrop potential of the Baram river basin in Sarawak — Ir Lee Sing Siew and Dr H. Hildebrand, Fichtner GmbH & Co KG, Germany
- Plans and priorities for water resources and hydropower development in China — Dr Jia Jinseng, China Institute of Water Resources and Hydropower Research, China; and President, ICOLD
- Overview of renewable energy resources potential and plans in India — C.V.J. Varma, Council of Power Utilities, India
- Optimization of hydropower potential of the Periar valley, Uttarakhand, India — Dr H.R. Sharma, A. Sharma, and P. Kumar, Hydro Tasmania Consulting India Pvt Ltd
- Current and future hydropower development in Bhutan — Chiewhang Rinzin, Druk Green Power Corporation, Bhutan
- Hydro development potential and challenges in Nepal — K.P. Dalal, DK Consult Pvt Ltd, Nepal

Session 2: Materials for Dams
Chairman: Dr Malcolm Dunstan, Malcolm Dunstan & Associates, UK

- Keynote: Overview of RCC dam construction in Asia — M.R.H. Dunstan, MD&A, UK
- Testing of properties of the RCC for the Son La dam in Vietnam — Pham Viet An, PECCI, Vietnam; M.R.H. Dunstan, MD&A, UK; D. Morris and M. Conrad, AF Colenco Ltd, Switzerland
- Testing of the in-situ properties of the RCC for Yeywa dam, Myanmar — Zaw Min San, DHP, Myanmar; and Khin Lat, NPS, Myanmar; S. Cowie, AF Colenco Ltd, Switzerland
- Concrete production and quality control during the construction of a concrete gravity dam — P. Kulczycki, KTI-Plersch Kältetechnik, Germany
- Geomembranes for the waterproofing of RCC dams in Indonesia — Dr A. Scuro, Carpi Tech SA, Switzerland; Dr G. Vaschetti, Carpi Tech BV Amsterdam — Chassol Branch, Switzerland

Session 3: Hydraulic Machinery
Chairman: John Gummer, Hydro Consult Pty Ltd, Australia

- Keynote: In search of the perfect hydro E & M specification — J. Gummer, Hydro Consult Pty Ltd, Australia
- Development of a systematic approach for data collection and assessment of hydraulic equipment during site inspections — J. Weiss, Andritz Hydro AG, Switzerland
- Key issues for the development of Pelton projects in Asia and case studies based on new and refurbished projects in India — C. Bissel, R. Feyrer, H. Jagesherberger, H. P. Hausser, Dr. K. Winkler, M. G. Ravindra, Dr. H. Heck, Andritz Hydro Ltd, Switzerland
- Turbines for Vietnam’s 2400 MW Son La project — Zhongdong Zhang, Dr. Peng Hua Li, Tianjin Alstom Hydro Co Ltd, China
- Concrete production and quality control during the construction of a concrete gravity dam — P. Kulczycki, KTI-Plersch Kältetechnik, Germany
- PVC geomembranes for the waterproofing of hydroelectric powerplants — Dr A. Scuro, Carpi Tech SA, Switzerland; Dr G. Vaschetti, Carpi Tech BV Amsterdam — Chassol Branch, Switzerland

MONDAY 29 MARCH - Afternoon

Session 4: Commercial and Financial Aspects of Hydro and Water Resources Development (Presentations and Panel Discussion)
Chairman: Chris Head, Consultant, UK

- Advancing financing schemes for water sector projects in SE Asia — M. Matsuo, JICA, Japan
- Current challenges in financing medium-scale hydro projects in Indonesia — Dr Arias Firman, Indonesian Committee on Large Dams, and Ministry of Public Works, Indonesia
- Market risk assessment models — A.K. Mishra, NHPL Ltd, India
- Setting up a Power Grid / Power Market in the Mekong Region — D. Doran, DFID Mekong, Thailand
- Fair and balanced conditions of contract, a key to success in the construction of hydropower electric plants — Dr Sarwono Hardjomuljadi, PT GED Oja Energi, Indonesia

Panel Discussion
Invited panelists, including A.Palmieri (World Bank), Duy-Tanh Bui (ADB), Matsumoto Katsuo (JICA), and other experts, will lead an interactive discussion with participants. Suggested topics:
- Alternative financing/ownership models; valuing multipurpose and ancillary benefits; integrating hydro with other renewables; the costs of project delays; specific issues with export projects; risk and risk allocation; role of the IFCs; role of the host government.

Session 5: Dam Safety
Chairman: Dr Harald Kreuzer, Consulting Engineer, Switzerland; Dr Pham Hong Giang, President of VINCOLD, Vietnam

- Ensuring dam safety during construction and operation — M. Barker, GHD Pty Ltd, Australia
- Safety management of the Batang Ai dam in Malaysia — Tan Kee Choon, Sarawak Energy Berhad, Malaysia
- Instrumentation system for the Son La Dam, Vietnam: design and first results — Dao The Hung, PECCI, Vietnam; M. Conrad, D. Morris and K. Steiger, AF Colenco Ltd, Switzerland
- Instrumentation and structural monitoring of earth and rockfill dams — V.K. Rastogi, Encardo Rite Electronics Pvt Ltd, India
- Technical issues for the development of Pelton projects in Asia and case studies based on new and refurbished projects in India — C. Bissel, R. Feyrer, H. Jagesherberger, H. P. Hausser, Dr. K. Winkler, M. G. Ravindra, Dr. H. Heck, Andritz Hydro Ltd, Switzerland
- Earthquake safety evaluation for a concrete-faced rockfill dam in Turkey — Prof H. Town, Osmangazi University, Turkey
- The seismic design of the Son La RCC dam — D. Morris, K. Steiger, C. Rohrer and M. Conrad, AF Colenco Ltd, Switzerland; Dao The Hung, PECCI, Vietnam
- Iranian dam safety assessment guidelines — Prof M. Safi, Power & Water University of Technology, Iran
- Reducing operating risks at the Angat multipurpose water structure in the Philippines — P. Blaha and B. Skacel, CREA Hydro & Energy a.s., Czech Republic

Session 6: Marine Energy and SHP
Chairman: Niels Nielsen, International Energy Agency

- Potential for tidal current energy in Asia — M. Nielsen, International Energy Agency
- Progress on Vaith Hydra’s first tidal current powerplant to be installed in Asia — Dr J. Weilepp, Voith Hydro Ocean Current Technologies GmbH & Co KG, Germany
- The need in Asia for pumped storage plants: solutions at sea — F. Lempérière, Hydro Co-op, France
- A practical guide to the assessment and implementation of small hydro — Tammy Chu, Hydro Tasmania Consulting, Australia
- Environmental-economic aspects of small hydro projects in India, with special reference to Orissa — M. Kumar, DHPC Ltd, Orissa, India

Session 7: BHA Workshop on Small Hydro for Rural Development
Discussion leader: Prof David Williams, CEO, British Hydropower Association, UK

- A back-to-basics training Workshop on small renewable energy development in developing countries, incorporating technology transfer, collaboration and supply chain opportunities.

Evening: ASIA 2010 Welcome Reception at the Old Courthouse Building, Kuching

TUESDAY 30 MARCH - Morning

Session 8: Environmental Aspects
Chairman: Dr Dawes Mamit, Sarawak State Government, Malaysia

- Keynote: Social and environmental assessment procedure: strategic approach for sustainable development in Sarawak — Dr Dawes Mamit, Sarawak State Government and Member of Parliament, Malaysia; Justine Jok Jau Emang, Environmental Advisor to the State Government of Sarawak, Malaysia
- Post-project audit of environmental and social aspects — A. Tokay Salang, State Planning Unit, Sarawak, Malaysia
- Environmental impact assessment: a case study of the Chashma-Heleum hydro project in Pakistan — H.I. Ahrdi and I.S. Bhatti, Nespak Water Resources Division, Pakistan
- Environmental impact assessment for the 1000 MW Kachmar Wangtou hydro project in India — C.K. Agrawal and Y. Sharma, Jaypee Ventures Pvt Ltd, India
- Hydro development on the Upper Yellow river and improvements to the ecological system — Prof Song Zhou, Northwest Hydro Consulting Engineers
- Research on impacts to the Mayanghe national reserve of the Wujiang Pengshui hydro plant — Jiang Guocheng, Changjiang Water Resources Protection Institute, China
Session 9: Dams and Hydro Plants – Planning, Design and Construction
Co-Chairmen: Dr Chen Shin, Sarawak Energy Berhad, Malaysia; F. Lempérière, Hydro Co-op, France

(a) Malaysia
- The Murum hydroelectric project in Sarawak, Malaysia: from idea to implementation
  - Yong Kiong Cheong, Sarawak Energy Berhad, Malaysia
- The use of computational hydraulic modelling to optimize a cascade of hydro schemes on the Rajang river – N. West, Hydro Tasmania Consulting, Australia
- Design aspects of the 250 MW Hulu Terengganu hydro project, Malaysia – Qeem Nor, Tenaga Nasional Bhd, Malaysia; Qi He, SMEC International, Australia
- Studies and design aspects of the Bengoh dam in Sarawak – A.C. Morison, Halcor Group, UK; R.K.M. Ling, KTA (Sarawak) Sdn Bhd, Malaysia; D. Rangui, Public Works Dept, Sarawak, Malaysia
- Technical and economic feasibility of the Belaga hydro scheme, Sarawak – V. Srivastava, Hydro Tasmania Consulting, Australia; Lee Sing Siew, Sarawak Energy Berhad, Malaysia
- Prefeasibility study for the Baloh hydro scheme, Sarawak – Dr M. Barker, R. van der Vlugt and E. Chong, GHD Pty Ltd, Australia; Geh Pah Khong, GEM Exploration, Malaysia
(b) Worldwide
- The construction of the Yercau RCC dam in Myanmar – Myo Myint, Myint Zaw, Myo Myo Win and Win Kyi, MOEP, Myanmar; Dr A. Dredge, S. Cowie, K. Steiger and L. Djordjevic, AF Coelho Ltd, Switzerland; M.R.H. Dunstan, MDBA, UK
- Design of the Dam 1, Turkey’s first high concrete faced rockfill dam – C.U. Safak, Regional Directorate of State Hydraulic Works (DSI), Turkey
- Managing projects in an emerging economy – A. Dredge, M. Conrad and D. Morris, AF Coelho Ltd, Switzerland; Bui Phuong Nam, Son La Management Board, Vietnam; Dao The Hung and Nguyen Quyet Thang, PECCI, Vietnam

Session 10: Hydro Technology: Operation, Maintenance and Upgrading
Co-Chairman: Francis Griffin, Mott MacDonald, UK; and, Dr Lau Buon Sing, Sarawak Energy Berhad, Malaysia

Operation
- Getting more out of hydro and pumped-storage systems: Hydro-thermal integration
  - C. Romero and A. Fonseca, Ventyx, USA; B. Wood, Ventyx, Thailand
- Optimizing the operation of TNB Sultan Mahmud hydropower plant, Kenyir, Malaysia – O. Abdul Bahar, TNB Research Sdn Bhd, Malaysia

Monitoring and refurbishment
- Air gap monitoring key element to correctly identify generator rotor problems – A. Tetrault, Vibrosystm, Canada

Electrical engineering
- Application of 800 kV GIS in a 205 m vertical shaft – Rian Quan-long, Sang Zhi-jiang and Kang Ben-xian, Northwest Investigation Design and Research Institute, China; Hydropower Engineering Consulting Group, China; Eric Z.M. Ma, Powerizer Technologies Ltd, Hong Kong, China
- Design and shop testing for the Xiang Jia Ba 23 kV stator winding – T. Kiant, Alstom Hydro Switzerland; Zhongguo Yang, Tianjin Alstom Hydro Co Ltd, China

Session 11: Social Aspects – Responsible Planning
Chair: Lori Nielsen, Joint Secretary, International Energy Agency

Hydropower and conservation – Dr S. Sparks, Theun-Hinboun Power Company Ltd
- Ensuring local as well as regional/national benefits of dams and hydro schemes – A. Tekau Salang, State Planning Unit, Sarawak, Malaysia
- Enhancing stakeholder participation: mainstreaming cumulative changes, regional risks and transboundary impacts – Dr S. Dhillon, Enviro-Dev, Norway
- Education and capacity building for empowering Asian women for improved water governance – a growing need in the Asian water sector – K. Athukorala, Sri Lanka Water Partnership

Session 12: Hydrology, Floods and Flood Discharge Works
Chairman: Prof Luis Berga, Polytechnic University of Catalunya, Spain and Hon. President, ICOLD

Keynote: The implications of climate change for water infrastructure – Prof L. Berga, Polytechnic University of Catalunya, Spain, and Hon. President, ICOLD
- Low cost spillways and cofferdams adapted to Asian conditions – F. Lempérière, Hydro Co-op, France
- Consistent determination of water availability and design floods in the Baram river basin Sarawak, by statistical and hydrological modelling – Dr G. Moon, University of Braunschweig, Germany; Dr H. Hildebrand, Fichtner GmbH & Co KG, Germany
- Climate change and hydrology – flood prediction mitigation and management – H. J. Afridi and S.M. Mehar Ali Shah, Nespak, Pakistan
- Refinement of hydraulic design of a complex stepped spillway arrangement through numerical and physical Modelling – J. Willey and T. Ewing, GHD Pty Ltd, Australia; E. Lesliegher, Lesliegher Consulting Pty Ltd and J. Dymke, ActewAGL, Australia

Session 13: Renewable Energy Systems - Hybrid, Wind and Solar
Chairman: C.V.J. Vars, President, Council of Power Utilities, India

- Renewable energy master plan – tapping Sarawak’s potential – L. Chai Kim Pau, Dr Chen Shin, J. Abdullah and Goh Wei Chion, Sarawak Energy Berhad; Dr A.R. Henry, University of Malaysia, Sarawak; J. Wong Kee Sing, Public Works Dept, Sarawak; K. Jacks, Hydro Tasmania Consulting, Australia
- Implementation of hybrid renewable energy systems in Sarawak – M. Bergadano and F. Filipi, epolus, Italy
- Development of renewable energy in China: moving from a ‘hydro only’ focus to a strategy for wind and hydro systems – Dr Gao Zhiqiang and Dr Guo Jun, China Institute of Water Resources and Hydropower Research, China
- Current status of wind power development in China and future prospects – Minhao Wang and Dr Guamu Chen, Hydrochina Corporation, China
- Wind farming – a viable eco-friendly source of energy for India – Dr S.K. Sharma, Carman School, India
- Potential use of solar energy for agricultural irrigation in Turkey – Dr Oner Cetin, Dicle University, Turkey

Session 14: Workshop on Resettlement: learning from the Nam Theun 2 experience in Lao PDR
Issues which are critical in gaining public acceptance of large dams projects include sensitive management of social issues, particularly population resettlement. Low cost ways of winning local support involve good communications with affected people, and a robust consultation process, and stakeholder participation. This Workshop is designed to stimulate debate on this subject, and takes up the main case study the Nam Theun 2 scheme in Lao PDR, now at the commissioning stage.
Panelists include high level representatives of: the Lao Government, the Nam Theun Power Company, EDF, the World Bank and the Asian Development Bank.

Session 15: Managing Sedimentation
Chairman: Sultan Alam, France

- Pakistan: can Francis turbines be used? – F. Griffin, Mott MacDonald Limited
- Pumped sediment sampling on the Upper Indus – J.H. Meldrum, Mott MacDonald, UK
- Choice of silt control device in the Himalayan rivers – D.B. Shrestha, Nepal Electricity Authority, Nepal
- Test of sand probe as a tool for erosion monitoring in hydropower plants – Dr M.B. Bishwakarma, Hydro Lab, Nepal
- Study and work plan for rehabilitation of ringlet reservoir in Cameron highlands – Choy Fook Kun, SNC-Lavalin Power (M) Sdn Bhd, Malaysia; D. Saad, Tenaga Nasional Berhad, Malaysia

Session 16: Water Resources Development
Chairman: M. Gopalakrishnan, Secretary-General, ICID

- Water resources development in the Mekong Delta – Prof Dr Pham Hng Giang, President, Vietnamese National Committee for Large Dams, Vietnam
- Hydropower production vis-à-vis irrigated agriculture – Prof V. Dukhovny, Interstate Coordination Water Commission CIS ICWC, Uzbekistan
- Rainwater harvesting - a solution for the global water crisis? – Prof C.O. Su, The Petroleum Resources and Hydropower Research, China
- Current status of wind power development in China and future prospects – Minhao Wang and Dr Guamu Chen, Hydrochina Corporation, China
- Wind farming – a viable eco-friendly source of energy for India – Dr S.K. Sharma, Carman School, India
- Potential use of solar energy for agricultural irrigation in Turkey – Dr Oner Cetin, Dicle University, Turkey

Closing Plenary Session
Conclusions and recommendations Close of ASIA 2010
SOCIAL PROGRAMME

The social programme will include an optional cultural excursion for all participants, to offer a taste of traditional life in Sarawak, and there will also be two evening functions, which will include dinner.

SARAWAK CULTURAL VILLAGE

Optional excursion for all participants - Sunday 28 March

This half-day excursion has been planned to enable all international participants arriving in Kuching over the weekend to have an opportunity to see something of the surrounding landscape, have a relaxing lunch together and to learn about the culture and traditions of the indigenous people of Sarawak.

Registration for ASIA 2010 will be possible on Sunday before or after this trip. Return to BCCK will be in time for the two side events (BHA Networking Reception, or the Workshop on Pelton Turbines organized by Andritz Hydro.)

Departure will be at 11.30 hrs from BCCK, and the drive will take 30-40 minutes. The Cultural Village, located in the foothills of Mt Santubong, is a living museum of Sarawak.

Lunch will be served in the village restaurant, and there will be a conducted tour around the various longhouses, giving an opportunity to see handicrafts being made, sweets and biscuits being prepared, as well as various displays of music and dancing. The return to BCCK will be around 15.30 hrs.

WELCOME RECEPTION

The ASIA 2010 Welcome Reception will take place in and around Kuching’s Old Courthouse building, close to the Bazaar and the Sarawak river waterfront.

The elegant Court House complex was built in 1871 as the seat of Sarawak’s Government, and was used for this purpose until 1973. A baroque-style clock tower was added in 1883, and the Charles Brooke Memorial statue in 1924. Also to be seen nearby are: the Pavilion Building (a piece of New Orleans transplanted to Kuching) completed in 1909 and used for many years as the general hospital - and now a textile museum; and, the Round Tower, originally planned as a fort in 1886, and then used as a dispensary - today it houses the Sarawak Craft Council.

Our reception will be a colourful evening, with music, and a buffet supper.

CONFERENCE DINNER

The closing banquet will take place in Kuching, hosted by ASIA 2010 Partner Sarawak Energy Berhad. This will be an opportunity to experience the best of Chinese, Malay, Indian and local ethnic cuisine, with musical entertainment, dancing displays, and other surprises.

Photos: From above left - entrance to the Sarawak cultural village, and three examples of what can be seen there; the traditional Chinese ‘Lion dance’, to be seen during the Welcome Reception; Chinese-Malay dinner specialities; and (below right) the Old Courthouse building and clocktower.
Local tours have been planned for accompanying persons on both 29 and 30 March. In addition, accompanying persons are recommended to join the optional excursion to the Sarawak Cultural visit on Sunday afternoon.

**MONDAY 29 MARCH**

The group will assemble at 09:30 hrs for a city tour of Kuching (Cat City), which is a perfect introduction to the culture and traditions of Borneo. The guide will explain the history of the city, before and after the White Rajah era, and the main sites will be visited.

There will be brief visits to the places of worship for the three main ethnic groups of Malaysia: Chinese and Indian temples, and a Malay mosque.

After morning coffee, the group will transfer to the ‘Sarakraf’ Pavilion, which is a centre of arts and handicrafts. There will be a chance to see local people making various handicrafts from beads, bamboo and fabrics, and also a demonstration of cookery. Participants will be able to learn how to cook chicken in bamboo, and how to make the traditional laksa soup. Lunch will be served at the Pavilion.

After lunch there will be a short visit to the Sarawak Museum, and the guide will highlight the most important exhibits.

Return to the hotels in the late afternoon.

(Evening Reception at the Old Courthouse)

**TUESDAY 30 MARCH**

There will be an early pick-up from the hotels for the journey of around 30 minutes by coach to the Semenggoh Orang Utan Centre. On arrival at the Centre there will be a walk (10 to 15 minutes) through the forest reserve to the feeding point. The orangutans, originally either orphaned or injured, are being rehabilitated in natural conditions, roaming freely during the day within a large site; they are fed twice a day until they are able to collect food for themselves. Often there is a chance to view mothers with their young. Other small animals can be seen, and this is also a chance to enjoy the exotic vegetation of the rain forest.

*It is recommended not to wear bright, colourful clothing, as this can make the Orang Utans nervous, and reduce the chances of viewing them.*

Morning coffee will be taken at the centre.

The group will then continue, through the impressive landscape of the Borneo highlands, to the Annah Rais longhouse. After a welcome by the Bidayuh families of the longhouse, there will be a tour of some of the rooms, with a chance to learn about the local traditions. Lunch will be served in the longhouse (or, weather permitting, as a picnic by the river).

*NB: It is customary to offer simple gifts in the longhouses (eg, pens, pencils, or basic food items such as salt, sugar, tea). The guide will advise on this and assist with the purchase. It should be kept in mind that there are typically more than 30 families in the longhouse, and the Chief divides gifts equally among the families.*

Return to Kuching in the mid-afternoon, in time for shopping in the Bazaar.

(Evening: ASIA 2010 Gala Dinner in Kuching)
Two post-Conference Study Tours are being planned to give international participants the opportunity to see major dams and hydro schemes in operation and under construction in Sarawak, as well as to experience the fascinating cultures, flora and fauna of Borneo.

**TOUR A (31 March - 1 April)**

**Two days – Batang Ai CFRD and Hilton Resort**

**Day One**

Participants will leave Kuching after an early breakfast and travel by coach (approximately 45 minutes) to the Semenggok Orang Utan Sanctuary about 22 km south of Kuching City, to view families of orang utans taking their morning feed. The orangutans, originally either orphaned or injured, are being rehabilitated in natural conditions within a large site; they are fed twice a day until they are able to collect food for themselves.

*(NB: Bright colourful clothing should be avoided during this visit, as it can make the animals nervous, and reduce the chances of viewing them).*

The group will then travel on with a stop mid-morning at Serian, where there is a fruit and vegetable market, and refreshments will be available. A simple lunch will be taken in the town of Lachau. Another stop during the 250 km journey will be to view a pepper plantation. The last part of the journey, off the main road, will be through small villages and palm plantations, with a chance to view wild orchids growing, and traditional longhouse settlements, where the lifestyle of indigenous people has not changed for centuries.

In the afternoon, the group will arrive at the shore of the Batang Ai reservoir, and will transfer to the Hilton Resort’s private boat to cross the reservoir to the hotel (the only access is by this lake). Set in luxurious gardens with lush vegetation of the tropical rainforest, the Batang Ai Hilton has been built in Malay longhouse style.

Overnight stay (with traditional Malay-style dinner by the poolside).

**Day Two**

After a short boat trip across the reservoir from the hotel jetty, there will be a technical visit to the 110 m-high Batang Ai concrete faced rockfill dam and its associated 100 MW hydro plant, operated by Sarawak Energy Berhad. The scheme has been in operation since 1986. The dam was designed by SMEC of Australia, and was constructed by Japanese and Malaysian contractors.

After the site visit, the group will proceed by coach to the Lemanak jetty, to board a traditional longboat. Lunch will be a picnic by the river (weather permitting), and there will be a visit to a longhouse, with a chance to learn about the cultural traditions of the local people.

The return to Kuching will be by the late afternoon. Participants may either travel on to the airport, or book an overnight stay in Kuching.

**Tour prices**

US$390 single; US$335 per person sharing twin room.

Prices include: all land and boat transportation, entrance to the Orang Utan Centre, visit to Iban longhouse, dinner and breakfast at the resort, lunches at Lachau and the longhouse, one night’s accommodation at the Batang Ai Hilton, and an English-speaking guide throughout the trip.

Prices do not include: Extra drinks ordered during meals, tipping, porters, extras in the hotel, gifts for longhouse people.

**Notes**

It is suggested to leave heavy luggage in Kuching, and take an overnight bag only. Travel light, with comfortable walking shoes, insect repellent, a torch, a hat, swimwear, a camera and a waterproof bag to keep things dry, especially when travelling in the boats.

It is customary to offer simple gifts in the longhouses (eg, pens, pencils, or basic food items such as salt, sugar, tea). The guide will advise on this. It should be kept in mind that there are more than 30 families in the longhouse, and the Chief will divide gifts equally among the families.

Photos: *From above left - Orang Utans at the Semenggoh sanctuary; two views of the Batang Ai Hilton; the Batang Ai concrete faced rockfill dam, which has a 100 MW powerplant; a typical longhouse in the countryside; and, a pepper plantation. Sarawak is among the world’s leading pepper-producing regions, exporting on average 20 000 tonne/year.*
STUDY TOUR B

TOUR B (31 March - 2 April)

Three days – Bakun CFRD (2400 MW) and Murum RCC dam site

Day One
Early departure from the hotel to Kuching airport, for flight MH2290 departing at 07.30 hrs for Bintulu, arriving at 08.30 hrs.

Travel by four-wheel drive vehicles (approximately 2.5 hours) to the Bakun site, stopping en route for refreshments. Lunch and check-in to the Bakun guest house. The site has been developed as a small resort, with restaurants and a swimming pool.

In the afternoon there will be a technical briefing, and a viewing of the Bakun dam and powerhouse, where the installation of eight generating units and balance of plant are under way by Alstom and IMPSA. The first unit is scheduled to be commissioned by the end of this year, and the last will be in operation by January 2012. The dam is being built by a joint venture consortium (MCHJV) comprising Chinese and Malaysian contractors. Travel to and around the site will be in four-wheel drive vehicles.

Dinner and overnight stay at the Bakun resort (3*). Barbecue party if weather permits.

Day Two
Departure in several small groups (in four-wheel drive vehicles) for a 2.5 hour drive along timber roads through the jungle and hilly areas to the Murum dam site. Murum is an RCC dam under construction, which will have a 944 MW powerplant. There are two main locations to see: the intake works, tunnels, and diversion scheme (including the cofferdam) 8 km from the dam site; and, the 160 m-high RCC dam, under construction and the powerhouse. Interesting topography at the site provides the scheme with a 320 m head. There will be a technical briefing on arrival, followed by the first site tour.

After a packed lunch picnic, the tour will continue to other parts of the site. Murum, being developed by Sarawak Energy Berhard, is being constructed by the Three Gorges Corporation of China.

In the mid-afternoon, the group will have an opportunity to visit the Sungai Asap village, where communities were resettled from the Bakun reservoir area. On arrival the guests will be received with the traditional dance of the ‘Kayan’ tribe. There will be a tour of the village, with a chance to learn about the Kayan culture and customs.

The group will then travel back in four-wheel drive vehicles to Bintulu, for dinner and an overnight stay at the 4* Park City Everly Hotel.

Day Three:
After breakfast there will be a short walking tour of Bintulu, with a chance to visit the lively market, where people from the forest areas bring their fruit and vegetables to sell. The group will take a flight back to Kuching at 12.40 hrs, where participants may then connect with onward flights, or book a further night’s accommodation in Kuching.

Tour prices
US$835 single; US$795 per person sharing twin room*.

Prices include: return flight Kuching-Bintulu-Kuching, all land transportation, meals during the tour (two breakfasts, two lunches and two dinners), one night’s accommodation at the Bakun dam site resort (3*) and one night at the Park City Everly Hotel, Bintulu (4*), and an English-speaking guide throughout the trip.

Prices do not include: Extra drinks ordered during meals, tipping, porters, extras in the hotel.

*In the unlikely event of a major change in local air fares, a small surcharge could be payable

Notes
It is suggested to leave heavy luggage in Kuching, and take hand luggage only on the trip. Travel light, with comfortable walking shoes, suitable clothing for the construction sites, insect repellent, a torch, a hat, swimwear, a camera.

Photos: From above right - the Bakun CFRD nearing completion in 2009; two views of the site of the Murum RCC dam, which will have a 944 MW hydro plant; a blowpipe demonstration in a nearby village; the Park City Everly Hotel in Bintulu; and, the market at Bintulu.
Exhibition space is sold in units of 6 m², and includes panelling, a table, two chairs, spotlights, flooring and a company name sign. The price for one stand (6 m²) is US$3000. Lunch and refreshments will be served each day in the Exhibition Hall, to ensure that international participants have plenty of time to visit the Exhibitors.

Various opportunities are also available to sponsor social activities, such as aperitifs, lunches, receptions and coffee breaks. This can be a pleasant and memorable way of bringing your organization to the attention of the international participants.

To receive further details of the exhibition and/or sponsorship opportunities, please contact:
Mr Gaël Bozec, Mr Lukas Port or Mrs Maria Loredo at: Tel: +44 20 8773 7250 • Email: sales@hydropower-dams.com

Convention Centre contact details:
Borneo Convention Centre Kuching
The Isthmus, Sejingkat, 93050 Kuching, Sarawak, Malaysia
Tel: (+60) 82 392 888 • Fax: (+60) 82 480 222
www.bcck.com.my
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STANDS SOLD (January 2010)
Third International Conference on Water Resources + Renewable Energy Development in Asia - III

BOOKING CONDITIONS

The Conference Water Resources and Renewable Energy Development in Asia - III (ASIA 2010) is being organized by The International Journal on Hydropower & Dams with Sarawak Energy Berhad as local supporting partner, and with event management by Event Associates LLP, UK.

On-line Registration
You can register on-line at www.eventassociates.co.uk or via the Hydropower&Dams website at: www.hydropower-dams.com. Registrations will be handled by Event Associates. This is a secure server website. You may receive an acknowledgement of registration on completion of this process; however, this is not a confirmation.

Registration by post or fax
Complete the registration form and return it, with payment, to the Conference Secretariat. Please complete one registration form per delegate, including any accompanying persons. Please photocopy the form if you need further copies, or download a form from: www.hydropower-dams.com or www.eventassociates.co.uk

The total fees for Conference registration, accompanying persons’ programme, accommodation deposit, cultural excursion and/or study tour (if applicable) should be calculated and totalled in the “Total US$” column on the second page of the registration form.

On-site registration
On-site registration will begin at 09.00 hrs on Sunday 28 March 2010, at the BCCK, Kuching.

Payment
Payment for all services (fees, hotel deposit, tours) must be made in US dollars ($) and received in advance of the Conference. Payment is possible by the following methods:

- Bank transfer to Event Associates LLP (see details on the registration form);
- Banker’s draft to Event Associates LLP (see details on the registration form);
- On line by credit card, via paypal

All fees paid by credit card will be charged in US$.

Accommodation
The Conference organizers have negotiated discounted rates at a wide range of hotels in various price categories in Kuching. Rooms will be offered on a first-come-first-served basis. You are advised to reserve your room well in advance, as rooms cannot be guaranteed after 28 February 2010. Please complete the accommodation section of the registration form, and return it together with the required deposit to the Conference Secretariat (Event Associates Ltd). The deposit is necessary to guarantee the hotel reservation, and it will be deducted from the total amount of your hotel bill on checkout. All accounts must be settled in full directly with the hotel prior to departure. Event Associates Ltd will endeavour to meet all accommodation requests. However, should your preferred hotel be full, Event Associates Ltd reserves the right to make your reservation at the nearest available alternative.

Disclaimer
All best endeavours will be made to present the programme as printed. The ASIA 2010 organizers and their agents reserve the right to alter or cancel, without prior notice, any arrangements, timetable, plans or other items relating directly or indirectly to ASIA 2010 for any cause beyond its reasonable control. In the unlikely event of cancellation of ASIA 2010, all pre-paid fees will be refunded in full. The organizers and agents are not liable for any loss or inconvenience resulting from such alteration. The Conference and Tours are subject to minimum numbers. Tour places are subject to availability on a first-come-first-served basis. Full payment for tours must be received at the time of registration.

Cancellations
Cancellations must be made in writing to Event Associates LLP, on or before 12 March 2010. Cancellation charges will be payable as shown in the Table below. Substitution of delegates after a reservation has been made is acceptable before the Conference, and no extra fee is payable. Any necessary refunds (see Table below) will be made after the Conference.

Liability/Insurance
The registration fees do not include the insurance of participants against personal accidents, sickness, cancellations by any party, theft, loss or damage to personal possessions. The organizers accept no responsibility for death, injury, loss or accident, delay arising from any act or default of any person, or any other matter arising in connection with Conference services or transport. The organizers make no warranty in this connection. All services provided are subject to local laws. Arrangements for the Conference have been made in accordance with UK Law.

Delegates, exhibitors and tour participants are strongly advised to take out adequate personal insurance to cover risks associated with travel, accommodation, cancellation and theft or damage to personal belongings. The organizers reserve the right to amend any part of the Conference programme or arrangements if necessary. In the very unlikely event that it is necessary to cancel any of the Conference arrangements, an appropriate refund will be made and thereafter the liability of the organizers will cease.

Passport and Visa Requirements for Malaysia
It is the responsibility of all participants to check their own passport and visa requirements. Please contact the Malaysian Embassy or consulate in your country if in doubt about requirements.

Letters of invitation
If you require a letter of invitation from the organizers to facilitate your visa application, please let us know at the time of registering. A letter can be issued to assist with obtaining a visa, but this does not imply an invitation to the Conference without payment of registration fees, unless such arrangements have been made with the organizers. If you need a letter from the host country, as well as the organizers, please notify us as soon as possible. Please allow plenty of time for visa applications.

A reduced registration fee is available for current subscribers to Hydropower & Dams.

CONTACT DETAILS

For enquiries concerning registration and accommodation, contact:

Event Associates LLP, PO Box 10630, Great Dunmow, Essex CM6 9AX, UK
Tel: +44 (0)118 934 7333 • Fax: +44 (0)118 934 4206 • Email: enquiries@eventassociates.co.uk

NB: Registration forms and payment should be sent to Event Associates Ltd.

On-line registration at: www.eventassociates.com

For further details of the programme, please contact:

Mrs Margaret Bourke at:

Hydropower & Dams, PO Box 285, Wallington, Sutton, Surrey SM6 6AN, UK.
Tel: +44 (0)20 8773 7244 Fax: +44 (0)20 8773 7255 Email: asia2010@hydropower-dams.com

Website: www.hydropower-dams.com
REGISTRATION FORM

This registration form is a self-billing order form, which should be sent to Event Associates LLP with payment for all items booked on the form. By completing this form you are agreeing to the Booking Conditions within this brochure. Fees are payable in US Dollars (US$). Each Conference/Exhibition participant should complete a separate form.

PLEASE COMPLETE THE FORM IN CAPITAL LETTERS, AND EMAIL A PORTRAIT PHOTO (JPEG FORMAT) TO BE USED ON A PHOTOBORD AT THE CONFERENCE

Title (Mr/Ms/Mrs/Dr/Prof/etc): Given name: Family name: (surname)

Name as it should appear on your badge/in correspondence: ie, Mr John BROWN or Mr Li Jishang

Job title within organization:

Organization:

Organization’s postal address (inc. post code and country):

Tel (inc. country code): Fax (inc. country code):

Mob (for use by organizers only):

Email address: Web site:

Data Protection: I do not wish my email address to be passed to any third party ❑ I do not wish any contact details to be passed to a third party ❑

FEES

<table>
<thead>
<tr>
<th></th>
<th>Until 15 Feb 2010</th>
<th>From 16 Feb 2010</th>
<th>Total US$</th>
</tr>
</thead>
<tbody>
<tr>
<td>FULL DELEGATE FEE:</td>
<td></td>
<td></td>
<td>US$915 US$1010</td>
</tr>
<tr>
<td>Reduced Delegate Fee:</td>
<td></td>
<td></td>
<td>US$870 US$1010</td>
</tr>
<tr>
<td>Speaker Fee:</td>
<td></td>
<td></td>
<td>US$540 US$560</td>
</tr>
<tr>
<td>First Exhibitor Fee:</td>
<td></td>
<td></td>
<td>Free of charge</td>
</tr>
<tr>
<td>Second (+ Third) Exhibitor Fee:</td>
<td></td>
<td>US$700</td>
<td></td>
</tr>
<tr>
<td>Accompanying Person Fee:</td>
<td></td>
<td>US$300</td>
<td></td>
</tr>
</tbody>
</table>

AIRPORT TRANSFERS (Shuttle buses will be available at regular intervals on 27 and 28 March from Kuching airport to the city hotels, and on 31 March for the return to the airport. The price per person for a one-way trip is US$ 20. I wish to book ______ arrival transfers / ______ departure transfers. (Please enter total cost)

FLIGHT DETAILS
Arrival (date)  Time: From: Flight No: 
Departure (31 March available only) Time: To: Flight No: 

EXCURSION TO SARAWAK CULTURAL VILLAGE (Sunday 28 March)
I wish to book _______ seats at US$ 40 per person

DIETARY REQUIREMENTS

Participant: Vegetarian meals required ❑ Other dietary requirements / special needs _________________________________
Accompanying Person: Vegetarian meals required ❑ Other dietary requirements / special needs _________________________________

PLEASE TOTAL THE COSTS ON THIS PAGE AND CARRY THEM OVER TO THE SECOND PAGE
SUB-TOTAL OF FEES CARRIED OVER FROM PREVIOUS PAGE

ACCOMMODATION  (Please refer to Booking Conditions)
The Conference sessions, Exhibition, Speakers’ reception and side events will be held at the Borneo Convention Centre Kuching (BCCK).
Hotel rooms have been reserved in Kuching city, a short coach ride away. Shuttle buses will be available on 28, 29 and 30 March between the hotels and BCCK, at appropriate times for registration and all events related to ASIA 2010. Timetables will be available at the hotels and BCCK. Please indicate the category of room you require (rates are per room per night, and include breakfast, service, tax).

<table>
<thead>
<tr>
<th>SOLE USE BEDROOM WITH PRIVATE BATHROOM</th>
<th>TWIN OR DOUBLE ROOM WITH PRIVATE BATHROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>(includes taxes and breakfast)</td>
<td>(includes taxes and breakfast for two people)</td>
</tr>
<tr>
<td>4/5* Pullman Kuching US$ 125 per night</td>
<td>4/5* Pullman Kuching US$ 135 per night</td>
</tr>
<tr>
<td>4* Hilton US$ 127 per night</td>
<td>4* Hilton US$ 128 per night</td>
</tr>
<tr>
<td>4* Four Points Sheraton US$ 112 per night</td>
<td>4* Four Points Sheraton US$ 124 per night</td>
</tr>
<tr>
<td>3/4* Riverside Majestic US$ 95 per night</td>
<td>3/4* Riverside Majestic US$ 110 per night</td>
</tr>
<tr>
<td>3/4* Grand Margharita US$ 85 per night</td>
<td>3/4* Grand Margharita US$ 95 per night</td>
</tr>
<tr>
<td>2/3* Harbour View US$ 60 per night</td>
<td>2/3* Harbour View US$ 70 per night</td>
</tr>
</tbody>
</table>

Preference:  ☐ Twin  ☐ Double (cannot be guaranteed)

Check-in date: .......... March 2010  Check-out date: .......... March 2010  Total number of nights: ............

Special requests (eg, non-smoking room): ...........................................................................................................................................................................................................

Twin occupancy: Name of partner ...............................................................................................................................................................................................

(If you wish to share a room with another delegate, then you must both request the arrangement, and both send registration forms to Event Associates LLP at the same time. Only one person should make the payment for the hotel.)

TECHNICAL TOURS  See brochure for details of itineraries. Prices include all transportation (inc. air fares for Tour B), meals, guides, entrance fees during sightseeing trips, and accommodation (4* Tour A; 3* Tour B).

Homeward flight details: Date:.......................... Flight No: ....................... Depart time: ..................... FromBangkok to: .............................................................

Tour A - Batang Ai (2 days) A visit to the Batang Ai CFRD and 100 MW hydro plant, with an overnight stay at the Batang Ai Hilton resort (overlooking the reservoir). Includes a visit to an orang utan sanctuary and a traditional longhouse

............. Single room US$ 390 per person (total tour cost) ........... Sharing twin room US$ 335 per person (total tour cost)

Tour B - Bakun and Murum dam sites via Bintulu (3 days) Flight from Kuching to Bintulu. Technical visits to Bakun dam and 2400 MW hydro plant, now reaching completion, and the site of the Murum RCC dam, where work is underway for a 944 MW hydro scheme. Visit to the village built for those resettled from the Bakun reservoir area.

............. Single room US$ 835 per person (total tour cost inc. flights) ........... Sharing twin room US$ 795 per person (total tour cost inc. flights)

PASSPORT DETAILS (necessary only for dam site visits if you are taking part in a study tour)

(Delegate) Full name as in your passport: .......................................................... Passport No: ..........................................................

Date of issue: .................... Place of issue: .................... Expiry Date: .................... Nationality: ....................

(Acc person) Full name as in the passport: .......................................................... Passport No: ..........................................................

Date of issue: .................... Place of issue: .................... Expiry Date: .................... Nationality: ....................

TOTAL PAYMENT FOR REGISTRATION, HOTEL DEPOSIT AND EXCURSIONS (include total from first page)  US$

Please quote your company VAT / Mwst / TVA / ALV / BTW / MOMS number:

SOCIAL EVENTS  (Included in the registration fee and only available for registered participants)

I/we will attend (please tick boxes as applicable):  

<table>
<thead>
<tr>
<th>Monday 29 March – Welcome Reception and Buffet (Old Courthouse)</th>
<th>Participant</th>
<th>Accompanying Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes ☐ No ☐</td>
<td>Yes ☐ No ☐</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tuesday 30 March – Conference Dinner in Kuching (with musical entertainment)</th>
<th>Participant</th>
<th>Accompanying Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes ☐ No ☐</td>
<td>Yes ☐ No ☐</td>
<td></td>
</tr>
</tbody>
</table>

PAYMENT
Payment is possible by the following methods:

• Bank transfer (the preferred method) to:

  Event Associates LLP, Nat West Bank, Henley on Thames, UK  ~  Sort Code: 60-10-35  ~  Account No: 16347188

  IBAN number: GB72NWBK 60730116347188  ~  BIC number: NWBKGB2L

• Banker’s draft, payable to Event Associates LLP

• For on-line bookings, payment will be taken by paypal from your debit or credit card. All on-line fees will be taken in US dollars ($).

Event Associates LLP, PO Box 10630, Great Dunmow Essex CM6 9AX, United Kingdom
Tel: + 44 (0)118 934 7333  Fax: +44 (0)118 934 4206  E-mail: enquiries@eventassociates.co.uk

Online registration at: www.eventassociates.co.uk
or via: www.hydropower-dams.com

Payment must be received by Event Associates LLP by 15 February 2010 to qualify for reduced registration fees.