SAME GREAT SYMPOSIUM YOU HAVE COME TO EXPECT
IN AN UNEXPECTED LOCATION

ASIA TURBOMACHINERY & PUMP SYMPOSIUM
SINGAPORE | 22 - 25 FEBRUARY 2016
MARINA BAY SANDS

SPONSORED BY

EVENT PARTNERS
THE KOREA ROTATING MACHINERY ENGINEERS ASSOCIATION and the GAS TURBINES FORUM

EVENT ORGANIZER

ACADEMIC PARTNERS

ATPS.TAMU.EDU
The inaugural Asia Turbomachinery & Pump Symposium (ATPS) will be held in Singapore 22-25 February 2016. ATPS will serve as an extension of the long-running Houston Turbomachinery & Pump Symposia, bringing a premier training and networking event for turbomachinery and pump professionals to Southeast Asia. The event will combine an international exhibition with a world-class technical program covering topics such as maintenance, design, and troubleshooting as well as short case studies describing in-the-field problems and their real-world solutions.
This event will be hosted at the Marina Bay Sands, an outstanding and unique venue. At the time of construction in 2010, it was the world’s most expensive building at US$ 4.7 billion. Featuring a Skypark with infinity pool on the triple-towered 55th floor rooftop and a spectacular vista view of the Singapore skyline, the Marina Bay Sands is an event unto itself you won’t want to miss.

Special room rates available for conference attendees.

WWW.MARINABAYSANDS.COM
**TECHNICAL PROGRAM**

**SHORT COURSES**

A short course is a full-day training session presented concurrently on the first day of the symposium. Additional registration fee required.

- **PUMP CAVITATION - PHYSICS, PREDICTION, CONTROL, TROUBLESHOOTING**
  Authors: Frank Visser, Bruno Schiavello (Flowserve)

- **RECIPIENTING COMPRESSOR 101 - CONSTRUCTION, OPERATING PRINCIPLES AND MAINTENANCE GUIDELINES**
  Authors: Andre Eijk (TNO), Thomas Emminger (HOERBIGER)

- **VIBRATION PROBLEMS AND SOLUTIONS IN PUMPS AND TURBOMACHINERY**
  Authors: Bill Marscher, Eric J. Olson (Mechanical Solutions Inc.)

- **CENTRIFUGAL COMPRESSORS 101**
  Authors: Mark Kuzuozal, Jay Koch (Dresser-Rand)

- **MAGNETIC BEARINGS IN TURBOMACHINERY**
  Authors: Joseph Tecza, Rasiah Khati (Dresser-Rand), Richard Shultz (Waukesha Magnetic Bearings), Stan Uptigrove (ExxonMobil)

- **BABBITED BEARING OPERATION AND DIAGNOSIS**
  Authors: John Whalen (John Crane), C. Hunter Cloud (BRG Machinery Consulting LLC), Lim Lee Seng (ExxonMobil Asia Pacific Pte Ltd)

- **LATERAL ROTORDYNAMICS OF PETROCHEMICAL EQUIPMENT - REVIEW, EXAMPLES AND PROBLEMS**
  Authors: John Koehr (ExxonMobil Research & Engineering)

- **MATERIALS IN CENTRIFUGAL COMPRESSOR AND STEAM TURBINES: SELECTION, PROCESSING, AND REPAIR**
  Authors: Scot Laney, Derrick Bauer, David Dowson (Elliott Group)

- **INTRODUCTION TO INDUSTRIAL GAS TURBINES**
  Authors: Rainer Kurz (Solar Turbines), Klaus Brun (Southwest Research Institute)

- **STEAM TURBINES: OPERATION & MAINTENANCE**
  Authors: Takeshi Hataya (MHI), Ronald Jozefczyk (Elliott Group), Elumalai Subramani (ExxonMobil Chemical), Arun Kumar (HOERBIGER)

- **CENTRIFUGAL PUMPS: OPERATION, MAINTENANCE AND RELIABILITY, VERTICAL PUMP PROBLEMS AND SOLUTIONS**
  Authors: Jihoon Yoon (Dongyang Chemical Pump), Bruno Schiavello (Flowserve), Kenneth Atkins (Engineering Dynamics, Inc)

- **CENTRIFUGAL COMPRESSORS: OPERATION AND MAINTENANCE, ADVANCED DESIGN, WET AND GAS OPERATION**
  Authors: Urs Baumann (Man Turbo), Leonardo Baldassarre (GE O&G), Jay Koch (Dresser-Rand), Jos Gilanamz (Dresser-Rand), Shin Konomi (Elliott Group), Ashutosh Vergherak, Arun Kumar (HOERBIGER)

- **DRY GAS SEALS: GENERAL (INSTALLATION, OPERATION, TROUBLESHOOTING, AND RETROFITTING), CONTROLS**
  Authors: S.P. Asokan (Flowserve), Daniel Goebel (Eagle-Burgmann), Leonardo Baldassarre (GE O&G), Athal Doorembos (Dresser-Rand), Teo Woon Lip (ExxonMobil Chemical), Vasanth Bhat (Singapore Refining Company), Michael Sean Forsthoffer, William Eugene Forsthoffer (Forsthoffer Associates, Inc.)

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- **GAS TURBINES: OPERATION & MAINTENANCE**
  Authors: Klaus Brun (SwR), Rainer Kurz (Solar Turbines), Hassan Al-Balooshi (Qatar Pet), Peter Collins (Inpex), Manoj Gupta (Dresser-Rand)

**DISCUSSION GROUPS**

A Discussion Group is a forum in which leaders and attendees can address problems brought to the floor by attendees and find solutions to those problems through dialogue. Suggested Topics are to start the conversation; actual topics discussed will be determined by each session’s attendees. Each Discussion Group is 90 minutes long.

- **TRANSMISSION ELEMENTS: COUPLINGS AND ALIGNMENT, GEARS**
  Authors: Chris Wolford (Alta Eng Couplings), Joe Corcoran (Kop-Flex), Gaspare Maragioglio (GE O&G)

- **MAGNETIC BEARINGS**
  Authors: Manoj Gupta, Amit Saxena (Dresser-Rand), Teo Woon Lip (ExxonMobil Chemical)

- **COMPRESSORS:**
  Authors: Bill Marscher (Mechanical Solutions), An Sung Lee (KIMM), Eric Olson (Mechanical Solutions), C. Hunter Cloud, Jim Byrne (BRG Machinery Consulting LLC), Joe Tecza (Dresser-Rand), Marimuthu Gurusamy, Kenneth Atkins (Engineering Dynamics, Inc)

- **LUBRICATION: FLUID FILM BEARINGS:**
  Authors: John Whalen (John Crane), Minhu He, Jim Byrne (BRG Machinery Consulting LLC), Brian Pettinato (Elliott Group), An Sung Lee (KIMM)
A lecture is a presentation of a technical paper detailing cutting-edge, emerging technology. Two lectures are presented consecutively in one 90-minute time slot.

DEVELOPMENT OF HIGH-PRESSURE RATIO AND WIDE-OPERATING RANGE TURBOMACHINERY COMPRESSORS
Authors: Shirohito Tsuchiya (Mitsubishi Heavy Industries, Compressor Corporation), Diogo Yoshizu (Uijjara (PETROBRAS), Akio Nakaichiwa, Satoshi Sabori (Mitsubishi Heavy Industries, Ltd.)

CENTRIFUGAL COMPRESSOR SURGE CONTROL SYSTEMS - FUNDAMENTALS OF A GOOD DESIGN
Authors: Kamal Botros (NOVA Chemicals), Steven Hill (Williams Gas Pipeline), Jordan Grose (BETA Machinery Analysis)

SOLUTIONS TO REQUIREMENTS ON ELECTRICAL DRIVES IN O&G APPLICATIONS
Authors: Vijay Ganesan, Stephan Busse, Sven Demmig (Siemens AG)

DEFINITION OF A SCREENING CRITERION FOR CENTRIFUGAL COMPRESSOR VIBRATIONS INDUCED BY INLET GAS FLOW
Authors: Michele Fontana, Andrea Bernocchi, Alessandro Carnevali, Leonardo Baldassarre (GE Oil & Gas)

DESIGN VALIDATION OF HIGH SPEED RATIO EPICYCLIC GEAR TECHNOLOGY IN COMPRESSION SYSTEMS
Authors: Gaspare Marangiolo, Giuseppe Vannini (GE Oil & Gas), Paul Bradley, Shawn Buckley (Allen Gears)

MEETING COMPRESSION TRAIN BASE PACKAGE DESIGN REQUIREMENTS FOR SERVICE ON FLOATING PRODUCTION STORAGE AND OFFLOADING VESSELS
Authors: Harry Miller, Ed Abraham (Dresser-Rand Company)

EXPERIMENTAL EVALUATION OF THE EFFECTIVENESS OF ONLINE WATER-WASHING IN GAS TURBINE COMPRESSORS
Authors: Klaus Brun, Termance Grimley (Southwest Research Institute), William Foils (BP Exploration & Production), Rainer Kuz (Solar Turbines, Inc.)

TURBO EXPANDER TECHNOLOGY CONTRIBUTION IN DEVELOPMENT OF ETHYLENE PLANT PROCESS
Authors: Reza Agahi, Behrooz Enshaghi (Atlas Copco Gas and Process), Saleh Al Halaki (DAPCO), Trevor Mayne (Ceros Altona Olefin)

STRUCTURAL DYNAMIC BEHAVIOR OF FRAME 9E GTG MODULE FOR LNG PLANT
Authors: Marco Giancotti, Stefano Fattori, Roberto Biondi, Alessio Margiotta (GE Oil & Gas)

EFFECT OF INLET COOLING ON THE PERFORMANCES OF ISOTHERMAL MAIN AIR COMPRESSOR USED FOR ASU APPLICATIONS
Authors: Luca Porcara (MAN Diesel & Turbo Schweiz AG), Wai-Fo Zhe (Bosch Mahle TurboSystems Austria GmbH)

THE CHALLENGE FOR THE ACCURATE DETERMINATION OF THE AXIAL ROTOR THRUST IN CENTRIFUGAL COMPRESSORS
Authors: Yves Bidaut, Dominique Desaulbour (MAN Diesel & Turbo Schweiz AG)

EVALUATION OF VARIOUS METHODS FOR MANUFACTURING ONE PIECE, SMALL TIP OPENING CENTRIFUGAL COMPRESSOR IMPELLERS
Authors: Scott Laney, Derrick Bauer, Akiyoshi Ando (Elloitt Group)

COUPLED TORSIONAL AND LATERAL ANALYSIS FOR THE DETERMINATION OF THE DAMPING OF THE FIRST TORSIONAL MODE OF SYNCHRONOUS MOTOR DRIVEN COMPRESSOR TRAINS
Authors: Jean-Claude Pradetto, Urs Baumann (MAN Diesel & Turbo Schweiz AG)

OPERATION OF CENTRIFUGAL COMPRESSORS IN CHoke CONDITIONS
Authors: Rainer Kuz, Russell K. Marechale, Edward J. Fowler, Min Ji, Michael J. Cave (Solar Turbines Incorporated)

SQUEEZE FILM DAMPERS: AN EXPERIMENTAL APPRAISAL OF THEIR DYNAMIC PERFORMANCE
Authors: Luis San Andres, Sung-Hwa Jeung, Sean Den (Texas A&M University), Gregory Saveta (Pratt & Whitney Engines, UTC)

FOUR QUADRANT CENTRIFUGAL COMPRESSOR PERFORMANCE
Authors: Elisabetta Belardini, Dante Tommaso Rubino, Libero Tapinassi, Marco Pelella (GE Oil & Gas)

 Since 1984.

He has been involved in test programs that produced fundamental data for the rotordynamic problem that cost $1m/day (1976 $) for 6 months. He has led major development of the Space Shuttle Main Engine (SSME) before tests confirmed a major problem. He taught and did research at Colorado State University 1965-1971, the University of Louisville 1971-1980, and Texas A&M University 1980-present. He is the author of three books, and numerous journal and conference publications. His analysis predicted the major instability of the High Pressure Fuel Turbopumps (HPFTP) of the Space Shuttle Main Engine (SSME) before tests confirmed a major problem that cost $1m/day (1976 $) for 6 months. He has led major test programs that produced fundamental data for the rotordynamic coefficients of liquid, gas, and 2-phase annular seals. He has been director of the Turbomachinery Laboratory at Texas A&M University since 1984.

An invited lecture given in conjunction with the welcome address: 23 February 2016 at 0800 hours.

THE TURBOMACHINERY LABORATORY, PUMP AND TURBOMACHINERY SYMPOSIA; LOOKING BACKWARD ... LOOKING FORWARD

The first Turbomachinery Symposium was held in 1972 in College Station, Texas on the Texas A&M University Campus. It was the “brain child” of engineers working with turbomachinery notably including, in the oil and gas sector, Ed Nelson, AMOCO, A&M Class of 51 and petrochemical industry, Charlie Jackson, Monsanto, A&M Class of 51. It was initially sponsored by Dr. Cliff Simmang (then head of Mechanical Engineering) and was led by Dr. Methewan P. Boyce, then an Associate Professor of Mechanical Engineering at Texas A&M. The 1st Turbo Symposia had 21 exhibitors and an estimated attendance of 200 hundred.

The 1st International Pump Users Symposia was held in 1984 with 41 exhibitors and an estimated attendance of 300.

The 2015 (combined) Turbo and International Pump Symposia had an attendance of 5542 from 46 countries with 350 exhibiting companies.

We are presently attending the inaugural Asian Turbomachinery and Pump Symposia with a strong attendance and robust exhibit hall.

In 1972, many conferences competed for the attention of engineers wanting to learn more about the design, operation, and maintenance of turbomachinery. Today, most of them have disappeared, while the “TURBO symposia continue to prosper. This talk looks back at the start of the Turbo symposia to explain why they have continued to grow and prosper while other programs have disappeared.

Dara W. Childs, Leland T. Jordan Chair of Mechanical Engineering, Texas A&M University
TUTORIALS
A tutorial is a 90-minute mini short course/workshop. It is a teaching process.

GAS TURBINE PERFORMANCE
Authors: Rainer Kurz (Solar Turbines, Inc.), Klaus Brun (Southwest Research Institute)

STABILITY CONSIDERATIONS - A SIMPLIFIED APPROACH
Author: Urs Baumann (Man Diesel & Turbo Schweiz AG)

AN END-USER’S GUIDE TO CENTRIFUGAL PUMP ROTORDYNAMICS
Author: Bill Marscher (Mechanical Solutions, Inc.)

COMBUSTION, FUELS AND EMISSIONS FOR INDUSTRIAL GAS TURBINES
Authors: Michael Welch, Brian M. Igoe, David Wilson (Siemens Industrial Turbomachinery Ltd.)

SIMPLIFIED MODAL ANALYSIS FOR THE PLANT MACHINERY ENGINEER
Authors: Jose A. Vazquez, C. Hunter Cloud (BRG Machinery Consulting, LLC), Robert J. Eizember (DuPont Company)

APPLICATION AND DESIGN OF INTEGRALLY GEARED COMPRESSORS
Authors: Jose A. Vazquez, C. Hunter Cloud (BRG Machinery Consulting, LLC), Robert J. Eizember (DuPont Company)

CARBON FOOTPRINT REDUCTION TECHNIQUES WITH ROTATING MACHINERY
Authors: Vasanth Bhat, Quek Ser King Aaron (Singapore Refining Company)

TECHNICAL CHALLENGES FOR COMPRESSORS AND STEAM TURBINES FOR EFFICIENT AND SUSTAINABLE OPERATION IN MEGA ETHYLENE PLANTS
Authors: Satoshi Hata, Kyoichi Ikeno, Akironi Tatsaki, Matt Walton, Abhay Jain (Mitsubishi Heavy Industries Compressor Corporation)

CONTROL SYSTEMS - TRANSIENT MODELING AND ANALYSIS OF CENTRIFUGAL COMPRESSORS*
Authors: Aristotle Garcia-Hernandez, Jeffrey A. Bennett (Southwest Research Institute)

CONTROL SYSTEMS - MOLECULAR WEIGHT COMPENSATION CONSIDERATION IN COMPRESSOR SURGE CONTROL*
Authors: Amit Saxena (Dresser-Rand)

CONTROL SYSTEMS - SURGE CONTROL AND DYNAMIC BEHAVIOR FOR CENTRIFUGAL GAS COMPRESSORS*
Authors: Rainer Kurz, Robert C. White, Bernhard Winkelmank (Solar Turbines), Klaus Brun (Southwest Research Institute)

DRY GAS SEALS - MONITORING A TANDEM DRY GAS SEAL’S SECONDARY SEAL**
Authors: Rich Hosana (John Crane), Glenn Schmidt (DGS Glenn), Vladimir Bakalchuk (Flowserve Corporation), Jim McCraw (BP America Inc.)

DRY GAS SEALS - CENTRIFUGAL COMPRESSOR SHAFT END SEALS**
Author: Vasanth Bhat (Singapore Refining Company Pte Ltd.)

DRY GAS SEALS - WET SEAL TO DRY GAS SEAL CONVERSION**
Authors: Athal Doorenbos, (Dresser-Rand S.A.)

CURRENT AS OF 23 NOV. 2015 VISIT ATPS.TAMU.EDU FOR UPDATED INFORMATION

**This presentation is one part of a four-part tutorial on Dry Gas Seals. Each part is given during the same session and is 19-minutes in duration.
A case study is a short presentation describing the successful implementation of established, field-tested technology to solve a real-world problem. Up to two case studies are presented in a one hour time slot.

STRESS CORROSION FAILURE OF A LOW PRESSURE DISK FROM A 600MW STEAM TURBINE
Authors: Anthony Tipton (Thielsch Engineering, Inc.)

HIGH VIBRATION PROBLEM RESOLUTION IN CENTRIFUGAL PUMP THROUGH DESIGN CHANGE
Authors: Mahesh Shet, Arun Kumar, Namvet Singh (HML)

POLYTRHYTHMIC EFFICIENCY IMPROVEMENTS AND SUSTAINABILITY ON CENTRIFUGAL COMPRESSOR: CORROSION EROSION AND IMPACT OF FOULING
Authors: Tan Chek Sin, Ng Wei Sing, Arni R. Tharakaram (ExxonMobil), Koguchi Satoshi (Hitachi Japan)

EMERGENCY DAMAGE RESTORATION EXPERIENCES OF 25MW HEAVY-DUTY GAS TURBINE: BEARING RETROFIT DESIGN AND TEST RUN
Authors: An Sung Lee, Byung Ok Kim, and Kyung Ho Sun (KOMA), Byeong Kyu Park, Young-Soon Bae (LG Chem Ltd.)

REMOTE DIAGNOSTICS IN RESOLVING RANDOM VIBRATION ON A STEAM TURBINE
Authors: R. Sanjar Ganesh, Muhammad Zeeshan Iqbal (General Electric International Inc.)

INVESTIGATION & RESOLUTION ON OXIDATION FEED PUMP PULSATIION RELATED FATIGUE FAILURES
Authors: Arni Rajaraman Tharakaram, Saqib Ashraf (ExxonMobil), Rudiger Bullert (LEWA GmbH), Harry Kord, Andre Eijk (THN)

ADAPTING COMPRESSOR EQUIPMENT TO ACCOMMODATE DECLINING WELL PressURES AND ENSURE OVERALL EFFICIENCY IN MID/LATE FIELD LIFE
Authors: Ben Guhn, Rainer Kurz, Jonathan Bender (Solar Turbines), Joel Hayes, Yakin Hai, Arning Restu Utami (ConocoPhilips)

REPAIR OF STEAM TURBINE FOR SYNTHESIS GAS COMPRESSOR AT NFL MANGALIRAM
Author: Rakesh Markan (National Fertilizers Limited)

BAD ACTOR ELIMINATION IN PUMPS
Authors: Vasanth Bhat, Thangavel Suthan (Singapore Refining Company)

INVESTIGATION OF PROCESS GAS COMPRESSOR SHAFT VIBRATION PHENOMENA
Authors: Ashutosh Vengurlekar, Teo Woon Lip, Nathan Little (ExxonMobil Research and Engineering), Satoru Yoshida (Mitsubishi Heavy Industries Compressor Corporation)

DROUGHT SEAL FAILURE AND TROUBLE SHOOTING
Authors: A. Manikandan (GE Oil & Gas Doha), Moorthy Subramaniam (EagleBurgmann Middle East FZE, UAE)

APPROACH TO OVERHAULING A TURBINE ROTOR, RUNNING ON BARRING AFTER MAJOR OVERHAULING
Authors: Ranga Reddy, Ravi S. Reddy (BVL Power Systems Pvt Ltd)

ENHANCEMENT OF PUMP/PLANT PERFORMANCE BY CORRECT EVALUATION OF PROCESS FLUID VISCOSITY VARIATIONS AND PUMP GEOMETRY
Authors: Giancarlo Cicatelli, Bruno Schiavello (Flowserve)

A technical brief is a short-length communication describing advances in a specific topic or issue. The brief aims to showcase relevant information related to (measured) improvements in performance, predictions of system behavior, etc. The technical brief will be scheduled with a presentation time of 25 minutes plus 5 minutes for questions.

DROUGHT GAS SEAL CONTAMINATION DURING OPERATION AND PRESSURIZED HOLD – BACKGROUND AND POTENTIAL SOLUTIONS
Authors: Daniel Goebel, Timothy Sanford, Glenn Schmidt (EagleBurgmann)

MECHANICAL SEALS WITH DIAMONDFACE TECHNOLOGY USED IN DIFFERENT PIPELINE SERVICES
Authors: Nicholas Necker (EagleBurgmann)

USING NON-STANDARD MATERIALS FOR COUPLINGS ON SPECIAL TURBOMACHINERY APPLICATIONS
Author: Jack Xu (Altra Turbomachinery Couplings)

MECHANICAL SEALS WITH DIAMONDFACE TECHNOLOGY INDIAN PUMPS
Authors: Nicholas Necker (EagleBurgmann)

FIELD EVALUATION OF AN OFFSHORE PUMPING SYSTEM
Authors: Jeffrey A. Bennett, Augusto Garcia-Hernandez (Southwest Research Institute), Marco Antonio Munoz Prieto, Molés Leon Dorantes (PETROBRAS)
Organized by the Turbomachinery Laboratory (TL) the Asia Turbomachinery & Pump Symposium (ATPS) will be held:

**February 22-25, 2016 AT THE MARINA BAY SANDS RESORT & CONFERENCE CENTER, SINGAPORE.**

Sponsorship and exhibition opportunities are available for those organizations that desire to participate in this event.
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<th>Sponsorship Includes</th>
<th>Titanium $150,000</th>
<th>Platinum $100,000</th>
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<th>Welcome Reception $20,000</th>
<th>Delegate Bags $20,000</th>
<th>Conference Program $10,000</th>
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<tr>
<td>Complimentary invitations to Gala Dinner (with designated seating in VIP area)</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>8</td>
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<tr>
<td>Complimentary invitations to Opening Ceremony</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>6</td>
<td>4</td>
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<tr>
<td>Verbal acknowledgement on Gala Dinner or Reception</td>
<td>Gala Dinner</td>
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<tr>
<td>Logo and sponsorship title on signs at Gala Dinner</td>
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<tr>
<td>Logo and sponsorship title on all table name cards at Gala Dinner</td>
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<tr>
<td>Logo and sponsorship title on all VIP table name cards at Gala Dinner</td>
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<tr>
<td>Logo and sponsorship title on Gala Dinner menu</td>
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<tr>
<td>Logo on delegate bag (to be provided by sponsor)</td>
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<tr>
<td>Logo and sponsorship title on table cards for that day in coffee break area</td>
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<tr>
<td>Option to be provided by sponsoring company - Logo and sponsorship title on coffee mugs (to be provided by sponsor; otherwise placed on hotel cups)</td>
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<tr>
<td>Logo on note pads/pens (to be provided by sponsor)</td>
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<tr>
<td>Logo on lanyards (to be provided by sponsor)</td>
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</tbody>
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All money shown is $USD
EXHIBITOR PACKAGE

• $4,500 per 3m x 3m shell scheme*
• $4,000 per 3m x 3m space only*
  *Plus local taxes if applicable
• Each 6 x 6 or larger exhibit space will be open concrete for custom builds. (Furnishings, carpet, electrical and other services may be purchased for additional fees.)
• Company Listing in the Show Guide (100 word limit and entered through our online system.)
• Company Listing on our website, with a link to your company’s website
• Free Electronic Advertising Flyer for distribution to your customers inviting them to attend.
• Registered Attendee List, including Free Pass List in electronic format (2 to 3 weeks post show)
• Two FREE “Exhibitor” Badges:
  Each Exhibitor Badge permits the holder to attend all symposium technical sessions (does not include short courses, which may be purchased separately), admission to the banquet, two lunches, and includes a portfolio, proceedings, and an attendee list. Note that the Exhibit Hall may be closed during symposium technical sessions Tuesday and Wednesday mornings, allowing exhibitors to take advantage of these continuing education opportunities while earning continuing education units (CEUs).
• Option to purchase “Exhibit Area ONLY” (EAO) Badges (additional fee required):
  These badges are intended for personnel who will work in the booth but not attend technical sessions. EAO badges may be purchased for an additional $300.00 each, if purchased before the early bird deadline of January 29, 2016. After this deadline, the price increases to $400.00 each. Each badge includes admission to the Banquet (at the MBS) and two lunches served in the Exhibit Hall on Tuesday and Wednesday.
• Marketing Opportunities (additional charges may apply):
  Opportunities include: show guide advertisement, industry passport advertisement, various sponsorship packages, and social media promotions.
  Email: exhibit@turbo-lab.tamu.edu for more information.

CURRENT FLOOR PLAN AND MORE INFORMATION ON HOW TO EXHIBIT CAN BE FOUND ON THE EVENT WEBSITE: ATPS.TAMU.EDU/exhibit