



THE SOCIETY FOR  
**MODELING & SIMULATION**  
INTERNATIONAL

# POWERPLANT

Simulation Conference 2017

**JANUARY 16-19, 2017**

Wyndham San Diego Bayside, San Diego, CA



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***Brought to you by :  
The Society for Modeling & Simulation International (SCS)***

# **2017 PowerPlantSim**

## **PROGRAM BOOK**

January 16-19, 2017  
San Diego, CA, USA

**Sponsored by SCS**

### **General Chairs**

Joe Yarbrough (Nuclear Track)

&

Tara Stuart and Erica Finley (Fossil Track)

# **General Information**

## **PPS 2017 Registration**

Pacific Ballrooms

Sunday: 4:00 pm to 6:00 pm

Monday-Wednesday: 7:30 am to 5:00 pm

*On Thursday staff will be available for questions and information*

## **PPS 2017 Exhibitor Lite Reception:**

Tuesday, January 17, 2017

Pacific Ballroom and Foyer

5:00 pm to 7:00 pm

## **PPS 2017 Exhibit Area:**

Pacific Ballroom A & B

Monday and Tuesday: 7:30 am to 5:00 pm

Wednesday: 7:30 am to 1:00 pm

## **PPS 2017 Breakfasts & Breaks**

Pacific Ballrooms

Coffee and Pastries: Mon-Wed 8:00 am to 8:30 am

AM Coffee Break: Mon-Thurs 10:00 am to 10:30 am

PM Coffee Break: Mon-Thurs 3:00 pm to 3:30 pm

## **USUG Information:**

USUG Executive Session: Sunday, 5:00 pm to 6:00 pm (Room: Captains III)

Annual Business Meeting USUG (members only): Thursday, 8:30 am to 10:00 am  
(Room: Pacific Ballroom D)

Other USUG Sessions & Regional Workshops (members only): Thursday, 1:30 pm to 3:00 pm (Room: Pacific Ballroom C)

## **L3 MAPPS Information:**

L3 MAPPS Owners Circle™ Conference - Day 1: Thursday, 3:00 pm– 4:30 pm  
(Room: Embarcadero)

L3 MAPPS Owners Circle™ Conference - Day 2: Friday, 9:00 am– 3:00 pm  
(Room: Embarcadero and Lunch located in Pacific Coast)

\*Please note these L-3 events are to be attended by invitation only



# General Information

*Highlights of what's happening during the week of Power Plant Sim 2017*

**Sunday Evening 1/15/17:**

SCS Welcome Mixer

Where: Wyndham San Diego Bayside  
Hotel

Pacific Ballroom & Foyer

Time: 6:00 pm–6:30 pm



**Monday Evening 1/16/17:**

L3 MAPPS Welcome Reception

(Flyer Below)



**Tuesday Evening 1/17/17:**

Exhibitor Lite Reception

Where: Wyndham San Diego Bayside Hotel

Pacific Ballroom & Foyer

Time: 5:00 pm–7:00pm



**Wednesday Evening 1/18/17**

Old Town Bus Trip

Where: Old Town San Diego

Time: 5:30 pm

If you're still around, join us to a historical site full of shopping, food, and site seeing! SCS will provide a bus driving people over to Old Town.

# **Welcome to PowerPlantSim'17**

On behalf of The Society for Modeling and Simulation International, (SCS), we wish to express our warmest welcome to all participants, organizers and Exhibitors of the 2017 Power Plant Simulation Conference (PowerPlantSim'17). All attendees are welcome to attend all of the sessions and activities unless otherwise noted in the agenda.

PowerPlantSim'17 offers a great forum for worldwide researchers and practitioners from Academia, Industry, Business, and Government to share their expertise, results and research findings relating to the Fossil and Nuclear energy community. This year's conference is held at the Wyndham San Diego Bayside Hotel in San Diego, California.

We wish to thank the many individuals, whose dedicated effort contributed to the success of the event.

Thank you

Tara Stuart and Erica Finley, Focused Training and Technical  
Services

and Joe Yarbrough, Xcel Energy

# Exhibitors

# Exhibitors Information

## L3 MAPPS

When you are looking for increased reliability in your power plant's performance, you can count on L3 MAPPS simulation experience to get you there. Our dedication to true-to-life power plant simulators ensures that your personnel have the knowledge required to safely and efficiently operate your power plant.

Providing more than just training devices, our simulator solutions powered by L3 MAPPS unparalleled Orchid® suite of simulation products will elevate your engineering team to new heights in addressing plant design issues, procedural deficiencies and reliability improvements.

L3 MAPPS simulators provide superior real-world power plant training. L3 MAPPS offers a variety of products and services, including full scope simulators, classroom simulators, engineering simulators, simulator retrofits and upgrades, severe accident simulation, Learning Simulators, Learning Modules and System Knowledge Modules. We provide design to completion turnkey systems, specific components, and simulator design tools as required by the customer. With a worldwide presence, a solid leadership position and the ability to provide any level of customer support through our Owners Circle™ program, L3 MAPPS ensures the success of your simulator projects. Our simulators offer the highest quality in simulation fidelity and training to provide trainees and instructors with user-friendly tools for learning, controlling and exploring complex power plant systems.

Visit us at PowerPlantSim 2017 to learn more.

(Booth 106-107)

**CONTACT:** Isabelle Derry  
isabelle.derry@L-3com.com  
8565 Côte-de-Liesse  
Montréal, Québec  
Canada H4T 1G5  
www.L-3com.com/MAPPS  
LinkedIn: L3 MAPPS  
Tel: 1-514-787-4999



# Exhibitors Information

## Westinghouse Electric Company

Westinghouse Electric Company is the only company with a single focus on nuclear power, providing a wide range of nuclear plant products and services to utilities throughout the world. Our employees worldwide provide fuel, spent fuel management, service and maintenance, instrumentation and control, and advanced nuclear plant designs. With the world's largest base of installed plants, no company has more nuclear experience.

With the combined resources of Westinghouse and Toshiba, an even broader range of products and services will be available to our customers, furthering our commitment to providing solutions that help achieve reduced outage times, reduced operation costs, and clean and efficient plant operations.

(Booth 110)

**CONTACT:** Jack Cross  
crossjw@westinghouse.com  
1000 Westinghouse Drive  
Cranberry, PA 16066  
www.westinghousenuclear.com

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## SimGenics Simulation Systems

SimGenics, LLC, is an advanced plant simulator development company that specializes in engineering, training and DCS check-out simulators. While we have developed over 75 full and partial scope simulators, we go the extra step and develop the manuals, instructional services, and provide instructors to provide the highest quality, most comprehensive training available to power plant personnel today. As the industry deregulates, many plants are running deeply reduced staffing levels. This, combined with maturing plants and employee turnover due to retirements/cutbacks, has created a serious void in the training/experience ratio within most plants. SimGenics, LLC, provides advanced training technology to quickly and cost effectively equip any level of plant operator with skills and experience essential to safely and efficiently operate modern plants. SimGenics has a very satisfied client base!

(Booth 105)

**CONTACT:** Caryl Darnell  
cdarnell@simgenics.com  
529 25 1/2 Road, Suite B210  
Grand Junction, CO 81505  
<http://www.simgenics.com/>

# Exhibitors Information

## CORYS

With 180 new power plant simulators delivered over the last 25 years, CORYS brings to its customers a wealth of experience. CORYS is contracted to maintain more than 40 nuclear plant full scope simulators in the U.S. and France, and has provided more major nuclear simulator upgrades to full scope simulators than all vendors combined.

(Booth 100-101)

**CONTACT:** Jody Ryan  
Jody.ryan@corysthunder.com  
1351 Tradeport Dr.  
Jacksonville, FL 32218  
www.corysthunder.com

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## GSE Systems, Inc.

Since 1971 GSE Systems, Inc. has been solving the industry's needs for high-fidelity simulation and we continue to provide advances in engineering and visualization solutions. With the acquisition of Hyperspring LLC we not only provide the simulator, but also the training courses, instructors, and staff support to help you improve the performance of your plant and your people.

(Booth 109)

**CONTACT:** Deanne Bellin  
deanne.bellin@gses.com  
1332 Londontown Blvd.  
Sykesville, MD 21784  
www.gses.com

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## Simtronics

Since 1992, Simtronics® has developed and delivered innovative Operator Training Simulators (OTS) for the Process Industries and the educational institutions that train Operators and Technicians. Simtronics brings extensive simulation and training experience together with the latest technology for a proven, progressive, and exciting simulator system. Simtronics is a world leader in the development of innovative OTS (Operator Training Simulator) software for the Process Industries and the Educational Institutions which support them.

(Booth 111)

**CONTACT:** Thomas Judge  
tjudge@simtronics.com  
50 Birch Avenue Suite 100  
Little Silver, NJ 07739  
<http://www.simtronics.com/>

# Exhibitors Information

## Western Services Corporation

WSC, headquartered in Frederick, Maryland, is a global simulation company that was founded in 1995 and has been growing steadily based on the quality and efficiency of its products and its flexible team-oriented approach for serving customers.

WSC's primary focus is the development and deployment of advanced 3KEYSOFTWARE® Simulation Technology, which consists of the 3KEYMASTER™ simulation platform and a suite of unified graphical modeling tools, which includes 3KEYRELAP5-RT™, an adaptation of Idaho National Laboratory (INL) thermal-hydraulics and neutronics models running within the 3KEYMASTER Environment. WSC has its roots in the nuclear, fossil and combined cycle power plant operator training simulators and provides both new simulators and modernization or refurbishment of existing simulators. Even though operator training simulators are WSC's main focus, WSC has achieved significant growth in Simulation Assisted Engineering (SAE) based on the strength of its "engineering grade" simulation technology. Leading companies are now embedding WSC's technology in their engineering processes to address the challenges of improving quality up-front and reducing complex engineering development and commissioning cycles. To support the increasing deployment of e-learning, WSC has developed 3KEYSTUDENT™, which brings state-of-the-art simulator training to a student's PC anywhere in the world via the Internet. In response to the Fukushima event, WSC has embedded Severe Accident Analysis modeling in 3KEYMASTER by coupling MELCOR, a product of Sandia National Laboratories, with 3KEYRELAP5-RT.

WSC is committed to continually improving the capabilities of its technology and widening the applicability of its simulation technology to complex systems. To further this goal, WSC has a vigorous market-focused R&D program and a strong commitment to customer service. WSC is ready to serve you for your complete simulation needs.

(Booth 103-104)

**CONTACT:** Debbie Van de Poll  
deborah@ws-corp.com  
7196 Crestwood Blvd. #300  
Frederick, MD 21703  
www.ws-corp.com

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## Tecnatom

Tecnatom was set up in 1957 as a Spanish engineering company specialising in guaranteeing the operation and maintenance of nuclear power plants to the highest levels of safety. The company's main activities centre on the rendering of component inspection and structural integrity services, the training of personnel in advanced training settings and the plant operating assistance engineering. Today, it is a business group with subsidiaries in USA, France, Brazil, China and Abu Dhabi that carries out activities in several sectors, including energy, petrochemical, railways and aerospace.

The company supplies services and products with a high technological content, frequently designed and developed in-house, tailored to the needs and requirements of the different clients and markets and possessing state-of-the-art mechanical, electronic and data-processing design resources and programmes. Over 30 years of experience accumulated in simulation, operation support and human factors engineering has enabled Tecnatom to develop their own technology and methodology. These capabilities allow Tecnatom to provide the best solutions in training and simulation assisted engineering areas, in design and supply of new control rooms as well as in their modernization, leading I&C projects and designing and implementing new computerized operating support system.

# Exhibitors Information

## Tecnatom (Cont.)

Currently, the company participates in the design and supply of advanced control rooms and full scope simulators for 15 nuclear power plants in China, Taiwan, Argentina and Brazil, consolidating its presence as an international reference for the realisation of digital control room design and construction projects.

(Booth 102)

**CONTACT:** Paula Mateos  
pmateos@t-sertec.es  
Avda. Montes de Oca, 1  
Madrid, Spain 28703  
www.tecnatom.es

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## Technical Training Professionals

Technical Training Professionals is a company that specializes in “Visual Presentation of Technical Information.” Whether explaining the flowpaths of a gas turbine or the step-by-step procedure for disassembling a valve actuator or coal pulverizer, TTP clearly illustrates design, flowpaths, procedures and troubleshooting. We also have a cost-effective method of creating versions of our content in other languages, though collaboration with our customers for storyboard text and audio conversion.

(Booth 108)

**CONTACT:** Blake Uhlenhake  
buhlenhake@tectrapro.com  
9401 Indian Creek Parkway Suite 1170  
Overland, KS 66210

# Fossil Agenda

Monday, 16 January 2017

**Welcome and Introductions by Erica Finley and Tara Stuart  
(Focused Training and Technical Services)**

**8:30am – 8:45am Coast Ballroom**

**Session 1**

**8:45am – 10:00am Coast Ballroom**

- 8:45-9:15: *Engineering-Grade Simulators are a Valuable Aid-To-Design and Control-Analysis Tool* by Dr. William A. Arnold (Babcock & Wilcox)
- 9:15-10:00: *Xcel Energy Plant King & Sherco Full Scope Simulators* by Matt Baldus, Joel Dixon (WSC)

10:00am–10:30am COFFEE BREAK

**Session 2**

**10:30am – 12:00pm Coast Ballroom**

- 10:30-11:00: *Development of a Full Scope Web based Simulator* by Iván Francisco Galindo García (National Institute of Electricity and Clean Energies-Mexico)
- 11:00-11:30: *Software as a Service: Online and Operator Training Simulator (OTS)* by Kayla Emmons (Schneider Electric)
- 11:30– 12:00: *Early Delivery Partial Task Simulators Support Training for Fast Track Projects* by Alex Lekich (GSE Systems)

12:00pm–1:30pm LUNCH

**Session 3**

**1:30pm – 3:00pm Coast Ballroom**

- 1:30-2:00: *WUTAB Overview* by Erica Finley and Tara Stuart (Focused Training and Technical Services), Oussama Ashy (Western Services Corporation)
- 2:00-3:00: *Vendor Overviews*

3:00pm–3:30pm COFFEE BREAK

**Session 4**

**3:30pm – 4:30pm Coast Ballroom**

- 3:30-4:00: *Using Multimedia to Teach Lineworker Rigging Techniques* by David Holloway (American Technical Publishers)
- 4:00–4:30: *Adjourn Fossil Session*



# Fossil Agenda

Tuesday, 17 January 2017

## **Session 5 \*\*JOINT SESSION WITH NUCLEAR TRACK\*\* Pacific Ballroom D**

**8:30am – 10:00am Pacific Ballroom D**

- *Minimizing Cyber Security Threats to the Simulator* by Bernard Gagnon (L3 MAPPS)
- *Network Controls and Configuration* by Bob Patterson (OPG)
- *Determining a Course of Action for Aging UPS* by Mark Parrish (Hope Creek)

10:00am–10:30am COFFEE BREAK

## **Session 6**

**10:30am – 12:00pm Coast Ballroom**

- 10:30– 11:00: *Supply of Tuxpan Combined Cycle Full Scope Simulator* by Elena Gil (Tecnatom)
- 11:00– 11:30: *High Fidelity Simulator Enables Virtual Commissioning of the 1000MW Manjung Unit 5 Project* by Alex Lekich (GSE Systems)
- 11:30– 12:00: *Simulation Assumptions and the Path to the Dark Side* by Bill Talbot (Simulation Associates)

12:00pm–1:30pm LUNCH

## **Session 7**

**1:30pm – 3:00pm Coast Ballroom**

- 1:30– 2:15: *ReACT Simulator: Emissions Control Technology for WPS Weston* by Matt Baldus, John Lin (WSC)
- 2:15– 3:00: *Benefits of Detailed 3D Training for Maintenance and Operations* by Fred Foster (Technical Training Professionals)

3:00pm–3:30pm COFFEE BREAK

## **Session 8**

**3:30pm – 4:30pm Coast Ballroom**

- 3:30- 4:15: *Using Physical Switches on a Modern Simulator: the Experience of SRP Agua Fria Unit 2* by Robert McHugh, Matthew Hawkins, Swami Jayasankar, and Brian Webb (Schneider Electric), and Dant J (DJ) Tsosie, Shaddo Fraker (SRP Agua Fria Generating Station)
- 4:15– 4:30: *Adjourn Fossil Session*

# Fossil Agenda

Wednesday, 18 February 2016

## **Session 9**

**8:30am – TBD**

**Coast Ballroom**

- *Users Only Session/WUTAB Session*—Fossil Simulator user attendees and utility trainers are encouraged to gather for networking and open discussion.

# Nuclear Agenda

Monday, 16 January 2017

## Welcome and Introductions by Chair Joe Yarbrough (Xcel Energy)

8:30am – 9:00am

Pacific Ballroom D

## Session 1: Simulator Upgrades

9:00am – 10:00am

Pacific Ballroom D

Chair: Joe Yarbrough (Xcel Energy)

- *Brunswick Simulator Rehost and Model Upgrade* by Larry Dunlap (Brunswick Nuclear Generating Station), George McCullough III (Exitech), Ravi Khanna (GSE)
- *From Rehost to I/O System Replacement: A Major Simulator Upgrade for the Krško NPP* by Bernard Gagnon (L3 MAPPS)

10:00am–10:30am COFFEE BREAK

## Session 2: Tips & Tricks - Doing More With Less

10:30am – 12:00pm

Pacific Ballroom D

Chair: Tim Vriezma (DC Cook)

- *Trending simulator variables* by Tim Vriezma (DC Cook)
- *Auto generation of initial conditions* by Tim Vriezma (DC Cook)
- *NUMAC simulation* by Mark Parrish (Hope Creek)
- *3D Printing* by Joe Yarbrough (Xcel Energy)
- *Updating ICs to implement Ovation change* by Mike Galle (Farley)

12:00pm–1:30pm LUNCH

## Session 3: Simulator Modifications

1:30pm – 3:00pm

Pacific Ballroom D

Chair: Mark Parrish (Hope Creek)

- *Adding MAAP5 Severe Accident Simulation to the South Texas Project Simulator* by Michael Scott (South Texas Project)
- *NB Power PLGS Simulator Re-host and Model Upgrade* by Cliff Taylor (NB Power PLGS), Sergei Korolev (WSC), Majid Mirshah (WSC)
- *Developing a 3 Loop PWR and Severe Accident Simulator for the Japan Nuclear Regulatory Agency* by John Shriver (CORYS)

# Nuclear Agenda

Monday, 16 January 2017

3:00pm—3:30pm COFFEE BREAK

## **Session 4: Hardware Upgrades**

**3:30pm – 5:00pm**

**Pacific Ballroom D**

**Chair: Kashmir Singh (EDF Energy)**

- *Beaver Valley U2 and U3 Simulators I/O Replacement Project* by Dan Tiberio (Beaver Valley), Stanley Chan (CORYS)
- *The Challenge of Keeping Simulators Up To Date* by Pablo Rey (Tecnatom)
- *ANO Audio/Video Upgrade* by Raymond V. Alejandro (ANO)

# Nuclear Agenda

Tuesday, 17 January 2017

## **Session 5: \*Joint Session with Fossil\***

**8:30am– 10:00am**

**Pacific Ballroom D**

**Chair: Larry Hawkins (Oconee)**

- *Minimizing Cyber Security Threats to the Simulator* by Bernard Gagnon (L3 MAPPS)
- *Network Controls and Configuration* by Bob Patterson (OPG)
- *Determining a Course of Action for Aging UPS* by Mark Parish (Hope Creek)

10:00–10:30 COFFEE BREAK

## **Session 6: Simulator Modifications**

**10:30am– 12:00pm**

**Pacific Ballroom D**

**Chair: Mike Cote (Millstone)**

- *Seabrook Simulator Platform Modernization and Upgrade* by Dana Merrill (NextEra), Sergei Korolev (WSC)
- *Sizewell B Simulator Upgrade Augmented with New Learning Technologies* by Evangelia Papadopoulos (L3 MAPPS)
- *Recent Salem Plant Events and Simulator Upgrades* by Wayne Moran (Salem)

12:00pm–1:30pm LUNCH

## **Session 7: Simulator Management**

**1:30pm– 3:00pm**

**Pacific Ballroom D**

**Chair: Lowell Johnson (DAEC)**

- *Procuring and Building 3 Full Scope Simulators at Southern Company* by Mike Galle (Farley), Scott Zepplin (GSE)
- *Exelon Simulator Software Management* by Jeff Gurley (Exelon)
- *Top 10 Tips for Simulator Configuration Control* by David LaPointe (OPG)

3:00pm–3:30pm COFFEE BREAK

## **Session 8: Regulations**

**3:30pm– 5:00pm**

**Pacific Ballroom D**

**Chair: Joe Yarbrough (Xcel Energy)**

- *NRC Regulatory Perspective* by Theresa Buchanan (NRC/NRR)
- *Simulator Fidelity—NRC White Finding* by Glenn Krause (River Bend)
- *ANS–3.5-201x Update* by Jim Florence (Cooper)



# Nuclear Agenda

Wednesday, 18 January 2017

## **Session 9: Verification of Design**

**8:30am – 10:00am**

**Pacific Ballroom D**

**Chair: John Becerra (Diablo Canyon)**

- *Verification of Design Components* by Kashmir Singh (EDF Energy)
- *A Statistical Method for Benchmarking Nuclear Reactor Plant Models, for Use in Simulators, Using the Automated Code Assessment Program* by John McCloskey (Bechtel Marine Propulsion Corporation)
- *Perry DEHC Test Bed for Simulator In-Loop Testing* by John Stone (CORYS)

10:00am–10:30am COFFEE BREAK

## **Session 10: Simulator Life Cycle Management**

**10:30am – 12:00pm**

**Pacific Ballroom D**

**Chair: Ken Just (Ocone)**

- *Introducing Digital Controls on Legacy Simulators* by Vincent Gagnon (L3 MAPPS)
- *Use of Arduino Hardware to Upgrade Obsolete Simulator Components* by Andy Jedlowski (Exelon)
- *Life Cycle Management* by Lowell Johnson (DAEC)

12:00pm–1:30pm LUNCH ON YOUR OWN

## **Session 11: Simulator Life Cycle Management II**

**1:30pm – 2:00pm**

**Pacific Ballroom D**

**Chair: Mike Peterson (Xcel Energy)**

- *Brunswick Hardware Replacement* by Larry Dunlap (Brunswick)

## **Session 12: Exam Security**

**2:00pm – 3:00pm**

**Pacific Ballroom D**

**Chair: Mike Peterson (Xcel Energy)**

- *DC Cook Exam Security* by Scott Vince (DC Cook)
- *Excel Energy Exam Security* by Mike Peterson (Xcel Energy)

3:00pm–3:30pm COFFEE BREAK

## **Session 13: New (And Experienced) Personnel Class**

**3:30pm – 5:00pm**

**Pacific Ballroom D**

**Chair: Rick Baker (Quad Cities)**

- *What is a Healthy Simulator* by Mark Parrish (Hope Creek)
- *How Not to Conduct a PEST* by Scott Cupp (ANO)
- *Performance Testing Basics* by Jim Florence (Cooper)

# Nuclear Agenda

Thursday, 19 January 2017

**Session 14: USUG Annual Business Meeting (USUG Members Only)**

**8:30am – 10:00am**

**Pacific Ballroom D**

**Chair: Joe Yarbrough (Xcel Energy)**

\*\*Come with 5 minute synopsis of years events (OE, INPO, NRC, etc.)\*\*

10:00am—10:30am COFFEE BREAK

**Session 15: USUG Annual Business Meeting (USUG Members Only)**

**10:30am – 12:00pm**

**Pacific Ballroom D**

**Chair: Joe Yarbrough (Xcel Energy)**

12:00pm—1:30pm LUNCH

**Session 16: USUG Regional Workshops**

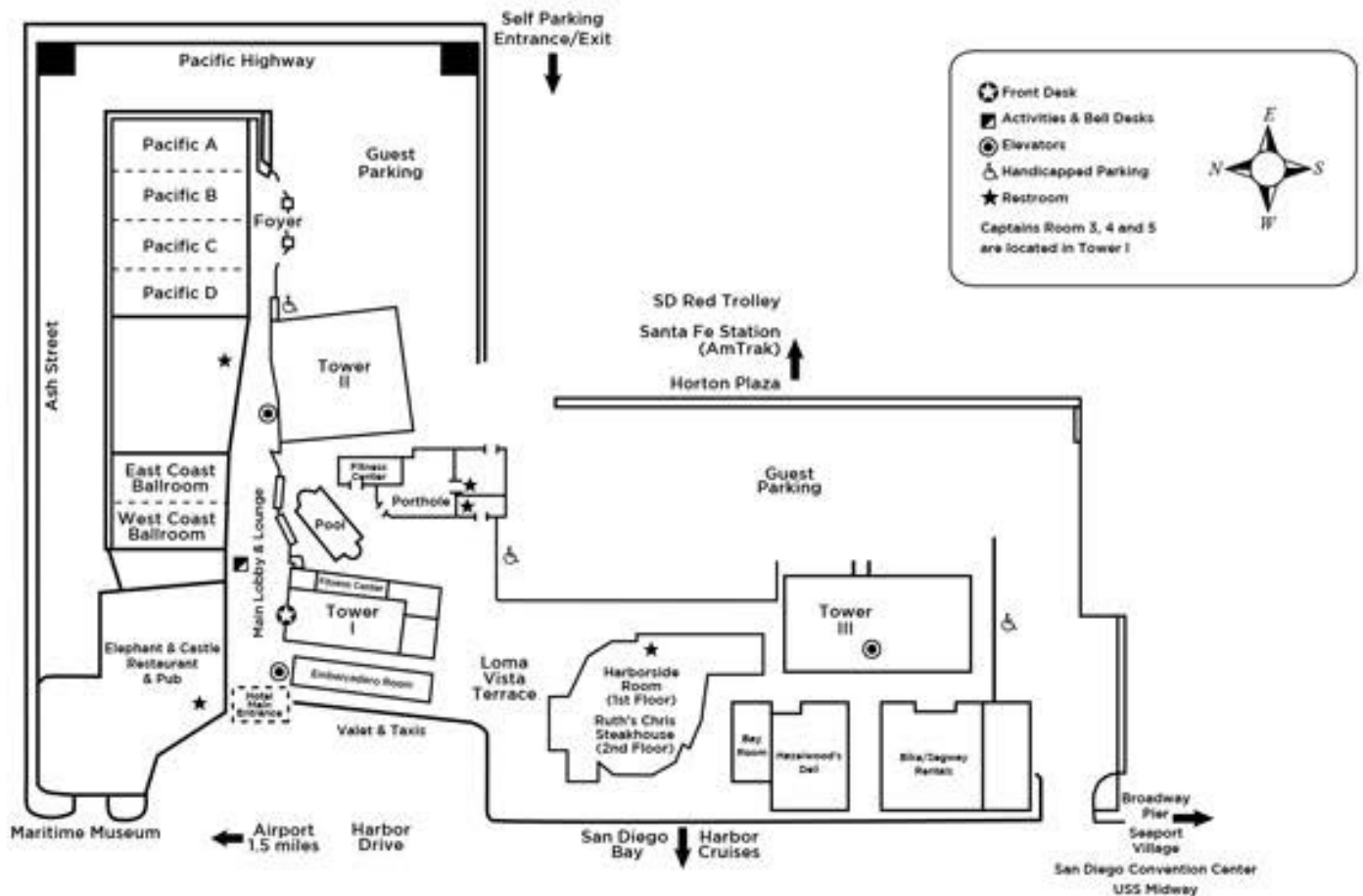
**1:30pm – 3:00pm**

**Pacific Ballroom D**

# Notes

# Maps

# Hotel Floor Plan

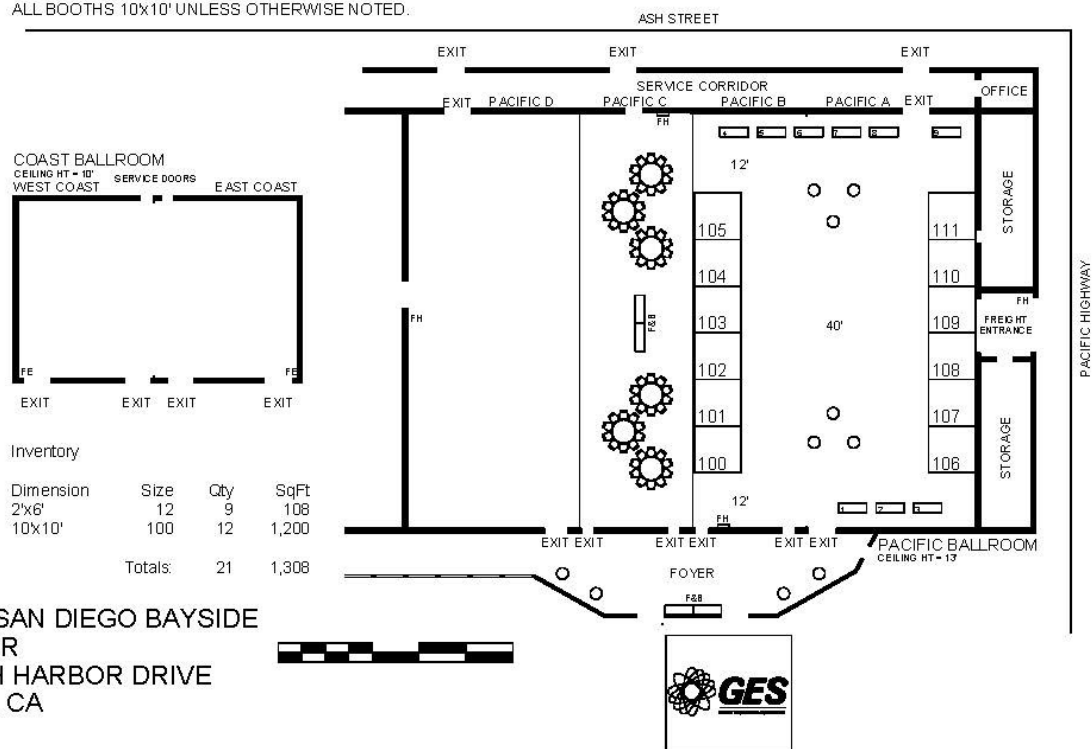




# Exhibitors Floor Plan

## POWER PLANT SIMULATION CONFERENCE JANUARY 16-18, 2017

ALL BOOTHS 10X10' UNLESS OTHERWISE NOTED.



Booth 100-101: CORYS Inc.

Booth 102: Tecnatom

Booth 103-104: Western Services Corp.

Booth 105: SimGenics Simulation Systems

Booth 106-107: L3 MAPPS

Booth 108: Technical Training Professionals

Booth 109: GSE Systems Inc.

Booth 110: Westinghouse Electric LLC

Booth 111: Simtronics

# **Nearby Restaurants**

## **Ruth's Chris Steak House**

1355 North Harbor Drive, San Diego, CA 92101

Phone: 619-233-1422

<http://www.ruthschris.com/Restaurant-Locations/san-diego>

Situated on San Diego Bay, Ruth's Chris Steak House is conveniently located close to the San Diego Convention Center, San Diego Airport and the heart of the downtown business district. Our steak house boasts one of the city's best views and offers some of the most spectacular sunsets in San Diego. Our highly trained staff uses good old-fashioned arm service for a real upscale steak house feel. Whether you're joining us for a romantic dinner, a business meeting, a private party or just a drink at the bar, our San Diego steak house will deliver superior service and an unforgettable dining experience.

## **Claim Jumper**

1355 North Harbor Drive, San Diego, CA 92101

Phone: (619) 531-7994

<http://www.claimjumper.com/default.aspx>

Open daily for lunch and dinner, Claim Jumper offers a selection of freshly prepared items using only the finest ingredients available. Favorites include Certified Angus Beef®, fresh fish, rotisserie chicken, baby back pork ribs, fresh baked pot pie, specialty salads, wood-fired pizzas, pasta, sandwiches, burgers and more. Claim Jumper's baked goods and desserts including our Six-Layer Chocolate Motherlode Cake, Scratch Carrot Cake and deliciously rich cream cheese pies are popular favorites with our guests.

## **Hazelwoods on the Bay**

Phone: 619-231-9866

<http://hazelwoodsonthebay.com/>

Proudly serve healthy fresh products and the finest ingredients. Offer breakfast, lunch and dinner as well as a wide selection of beer, wines and Margaritas. You can enjoy your delicious meals indoors with air conditioned dining room or the outdoor patio, where you can witness the Beauty of the Bay. Located at 1355 N. Harbor Drive San Diego CA 92101, across from the cruise ship terminals and in the Wyndham complex.

## **Ironside Fish & Oyster**

1654 India St., San Diego, CA 92101-2516

Phone: 1619-269-3033

<http://ironsidefishandoyster.com/>

Located in Little Italy, serves delicious seafood accessible for lunch, dinner, and late nights. Includes a full bar. You can make reservations online as well as have takeout. Great for seeking a bar scene, large groups, local cuisine, and special occasions.

# Nearby Restaurants

## **Anthony's Fish Grotto**

1360 North Harbor Drive, San Diego, CA 92101

Phone:(619)-232-5103

<http://www.anthonysfishgrotto.com/>

Anthony's Fish Grotto's was established in 1946 by Mama Catherine Ghio. It set and continues to set the standard for fresh seafood dining in San Diego. Mama believed in letting the freshness show through and not using overwrought and fussy preparations. Fresh seafood simply prepared. The waterfront Anthony's sits atop piling over San Diego Bay. The views and sunsets are spectacular. The large dining room can accommodate families and large groups and the Lounge/bar area is perfect for that more intimate dining experience. The menu features an array of seasonal fresh catches along with a multitude of favorites from Fish n Chips to Lobster Tails. Vegan, vegetarian and gluten free options are available.

## **Beach Hut Deli**

900 Bayfront Ct. #4, San Diego, CA 92101

Phone: 1619-501-3551

<http://beachhutdeli.com/>

At Beach Hut Deli our sandwiches are nothing like you have ever experienced. Every ingredient is top quality and completely fresh. Many sandwiches contain cream cheese, fresh sliced avocados and other delicious combinations. You will be amazed after you experience one of these delectable sandwiches.

## **Bracero Cocina de Raiz**

1490 Kettner Blvd., San Diego, CA 92102-2421

Phone: 1619-756-7864

<http://bracerococina.com/>

From the moment you enter, Bracero Cocina de Raiz will transform your spirit with thoughtfully designed spaces that are rustic yet modern, nostalgic and at the same time, impressively forward-thinking. For casual or romantic dining experiences, Bracero offers lively street-level dining, as well as an exclusive second-floor mezzanine that is sure to ignite the fire within. An interactive vertical bar towers from floor to ceiling, where mixologists are exhibiting their craft on every level, and an open kitchen on each floor allows guests to view the artful preparation of their meal. Specialty cocktails and tasty bites can be ordered tableside from carts, showcasing the talented depths of culinary creativity of the Bracero staff. There is also an open terrace that evokes a celebration of San Diego's perfect climate, and one more reason why, if you don't live here, you certainly should. In the spirit of tradition, fresh masa is made onsite in the manner in which it was originally processed, and handmade tortillas are made to order. A "crudo bar" featuring local Carlsbad shellfish and wild Baja seafood offers fresh international specialties that are sourced locally- such as tiraditos, ceviche and sashimi.

# Things to Do in San Diego

## **Balboa Park**

1549 El Prado, San Diego, CA 92101

Phone: 619-239-0512      <http://www.balboapark.org/>

Located in the heart of downtown San Diego (about 2 miles north of the city center), Balboa Park is a great place for a stroll, a bike ride or a picnic. Wander around the park's many gardens (don't miss the beautiful Inez Grant Parker Memorial Rose Garden) while admiring the intricate Spanish-Renaissance architecture. Take in a show at the Old Globe Theatre or the Marie Hitchcock Puppet Theater or enjoy the arts at the Casa de Balboa — which houses three separate art museums — and the Spanish Village Art Center.

## **Gaslamp Quarter**

<http://www.gaslamp.org/>

The Gaslamp Quarter's 16 blocks are peppered with Victorian-style buildings that now house a variety of shops, art galleries and trendy restaurants, not to mention some of the city's most popular nightlife venues. The best place to start your tour of the Gaslamp Quarter is the Horton Plaza outdoor shopping center. From there, you can explore the neighborhood's side streets or hop on an Old Town Trolley Tour. If you're not a night owl, the neighborhood's many patios and rooftop lounges are a great way to experience the Gaslamp Quarter's prime location.

## **San Diego Zoo**

2920 Zoo Drive, San Diego, CA 92101

Phone: 619-231-1515      <http://zoo.sandiegozoo.org/>

The San Diego Zoo is a great place to go in San Diego for a lot of reasons. Not only is it a huge park with almost inexhaustible exciting animal exhibits to see, but it is also fun for all ages. Since the 1920's the San Diego Zoo has pioneered efforts to create cage-less exhibits - don't worry, though, the lions can't escape from their exhibits! Cage-less just means that the animals are kept inside their exhibits by moats and enjoy humane surroundings that replicate their natural habitats as closely as possible. The San Diego Zoo also features some of the largest free flight aviaries in the world, so if you like bird song and gorgeous foliage, the San Diego Zoo is the place to be!

## **USS Midway Museum**

910 North Harbor Dr., San Diego, CA 92101

Phone: 619-544-9600      <http://www.midway.org/>

The USS Midway is one of America's longest serving aircraft carriers. The museum offers an up close look at life on the floating city with tours of various areas such as the post office, sleeping quarters, engine room and even the ship's jail. The San Diego USS Midway Museum is home to 25 restored aircrafts ranging from the World War II TBM Avenger to the Operation Desert Storm A-6 Intruder. Various other aircrafts that were flown during the Korean War and Vietnam War are on display as well. The flight simulators provide you the opportunity to experience launching off of the flight deck and combating with the enemy. Visitors have the choice of flying the two-person Strike Fighter 360 or the 12-person occupancy F-18 Hornet that flies on an Operation Desert Storm naval combat mission.

# Things to Do in San Diego

## **SeaWorld**

500 Sea World Drive, San Diego, CA 92109

Phone: 619-226-3901      <https://seaworldparks.com/en/seaworld-sandiego/>

Though you can often spot plenty of wildlife in the San Diego Bay, none put on quite as good a show as the performers at SeaWorld. Here you'll spot a range of animals, including killer whales, turtles, California sea otters and even parrots. As for the rides, recent travelers said you can't miss the Manta roller coaster, but caution against the Journey to Atlantis ride if you don't want to get wet. For something a little more low-key, head to any one of the park's animal exhibits, like the shark underwater viewing tunnel or the penguin habitat, which features nearly 300 penguins.

## **San Diego Birch Aquarium**

2300 Expedition Way, La Jolla, CA 92037

Phone: 858-534-3474      <https://aquarium.ucsd.edu/>

Birch Aquarium at Scripps invites visitors to watch animal feedings. If you've ever wanted to see a hungry shark get its meal or lobsters crawl out from under their rocks to get food, Birch Aquarium San Diego lets you check out the action during your visit. When you're at home, you can even get onto your computer and watch what's happening on the HD kelp live cam. San Diego Birch Aquarium makes sure that you're happy and full while you're here. Splash! Cafe serves sandwiches, snacks, and hot and cold beverages. If you want to remember your visit to Birch Aquarium at Scripps with a souvenir, stop by Aquarium Book & Gift Shop to browse the merchandise.

## **The Hall of Champions Sports Museum**

2131 Pan American Plaza, San Diego, CA 92101

Phone: 619-234-2544      <http://www.sdhoc.com/>

Recognized as the largest multi-sport museum in the United States. With three levels, the San Diego Hall of Champions celebrates the excellent San Diego sport stars of the past and current day. The Hall of Fame recognizes sport competitors on various levels from the amateur, high school and college level to the Olympic and professional level as well. The San Diego Hall of Champions Museum is impressive in that it acknowledges 133 outstanding athletes in 20 various sports categories including the well-known football, baseball and basketball players, but also the perhaps lesser-known competitors in horse racing, sailing and pole vaulting. The San Diego Hall of Champions Museum showcases San Diego's sport legacy throughout recent history.

## **Seaport Village**

849 West Harbor Dr., San Diego, CA 92101

Phone: 619-235-4014      <http://www.seaportvillage.com/>

Seaport Village San Diego might look like a regular shopping center when it's closed and no one is there, but when the sun is out and it's time to play, this place is a traveler's delight. Seaport Village San Diego is full of great entertainment, attractions, shopping and dining that - combined with an excellent San Diego Harbor view.



# Upcoming SCS Conferences

## 2017 Spring Simulation Multi-conference (SpringSim'17)

April 23-26, 2017

Virginia Beach Convention Center, Virginia Beach, Virginia, USA

The Spring Simulation Multi-Conference 2017 (SpringSim'17) brings leading experts in various domains of Modeling and Simulation together.

The conference includes keynote speeches presented by technology and industry leaders, technical sessions, professional development courses and seminars, as well as vendor exhibits. Scientists, engineers, managers, educators, and business professionals who develop or use simulation tools are invited to participate and present original papers. Proposals are solicited for papers, panels, tutorials, workshops, seminars, exhibits, social activities and for other presentation, discussion and sponsorship formats. People are always welcome to benefit by taking an organizing role. SpringSim'17 offers many ways to promote simulation products and to enhance corporate images. You are invited to use the Spring Simulation Multi-conference in ways that best serve your interests.

SpringSim'17 symposia currently scheduled include (but are not limited to):

- Annual Simulation Symposium (ANSS)
- Symposium on Theory of Modeling and Simulation (TMS/DEVS)
- Agent-Directed Simulation (ADS)
- Communications and Networking Symposium (CNS)
- High Performance Computing Symposia (HPC)
- Modeling and Simulation in Medicine (MSM)
- Posters session, Student Colloquium, M&S Mobile App Competition

And many more!

Please visit [www.scs.org](http://www.scs.org) for key dates and deadlines, or call the SCS office at (858) 277-3888



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# Upcoming SCS Conferences

## 2017 Summer Simulation Multi-conference (SummerSim'17)

July 9—July 12, 2017

Sheraton Bellevue, Bellevue Washington

The Summer Simulation Conference 2017 (SummerSim'17) is SCS's premier international conference in cooperation with ACM SIGSIM. The conference focuses on modeling and simulation, tools, theory, methodologies and applications and provides a forum for the latest R&D results in academia and industry. We encourage you to take this opportunity to experience the tutorials, tracks, and workshops that will be available.

The conference includes keynote speeches presented by technology and industry leaders, technical sessions, professional development courses and seminars, as well as vendor exhibits. Scientists, engineers, managers, educators, and business professionals who develop or use simulation tools are invited to participate and present original papers. Proposals are solicited for papers, panels, tutorials, workshops, seminars, exhibits, social activities and for other presentation, discussion and sponsorship formats. People are always welcome to benefit by taking an organizing role. SummerSim'17 offers many ways to promote simulation products and to enhance corporate images. You are invited to use the Summer Simulation Multi-conference in ways that best serve your interests.

SummerSim'17 will include invited speakers, quality refereed papers, timely topical workshops, joint plenary sessions, consolidated registration, and access for registrants to all Multi-conference activities.

The following symposia are scheduled:

- International Symposium on Performance Evaluation of Computer and Telecommunication Systems 2017 (SPECTS'17)
- Summer Computer Simulation Conference 2017 (SCSC'17) - See website for a full list of sub-tracks in this symposium.

Please visit [www.scs.org](http://www.scs.org) for key dates and deadlines, or call the SCS office at (858) 277-3888

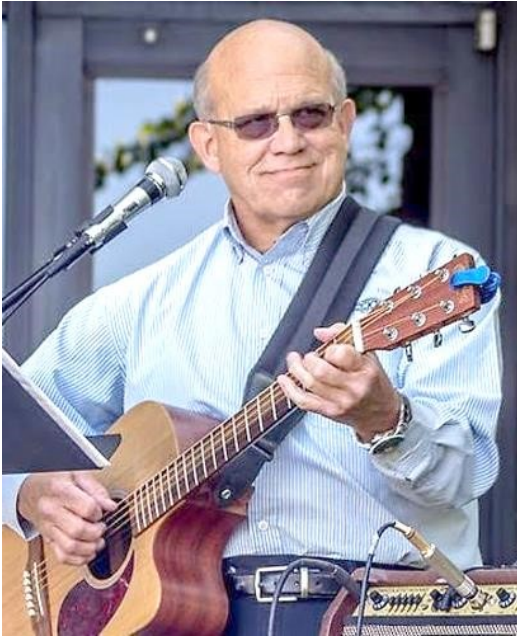


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# Notes

# In Memoriam of Bruce L. Kelly

MARCH 20, 1951 - NOVEMBER 18, 2016



Bruce L. Kelly, 65 of Paola, KS passed away Friday, November 18, 2016 following a brave journey with lung issues.

Bruce was born to Richard L. and M. Ann Kelly in Dubuque, Iowa on March 20, 1951. His sense of adventure and fun became evident when at the age of 2 he set off for a stroll on his own. His mother found him on a stool at a local tap entertaining the patrons.

Bruce was known in high school as the River King for his performance as the Captain of the Clinton High School football team. He also participated in wrestling, track and the Acapella Choir.

After attending Coe College Bruce returned to Clinton to work in the family business, Kelly Burner and Boiler.

Bruce had a lifelong love of music and theater. While in Clinton he played in several folk groups and was active in community theater, acting and directing with the Masquers Theater Group.

Bruce went on professionally to specialize in industrial burners and boilers. This led him to a long and impactful engineering career in the power industry. He developed tools to optimize power plant performance and efficiency which are used worldwide. He was a member of Sega, Inc., Overland Park, KS for over 35 years as Manager of Power Plant Services.

Bruce married his soulmate, Peggy Barthell, on June 20, 1980. Together they shared a love of animals and made their family of cats, horses and dogs. They were active in the Saddle & Sirloin Club and Mounted Patrol. Bruce and Country Boy proudly served as Patrol Captain in 1999-2000.

Peggy and Bruce enjoyed foxhunting with their horses and were active in three Kansas hunt clubs: Ft. Leavenworth Hunt, Mission Valley Hunt and Coal Valley Hunt.

Music was a big part of their life. They promoted live music by creating the Open Range Concert series in Paola, KS. They also sang and played in the Bound By Faith acoustic band at Saint Andrew Church and in a duo-trio group, Flying Blind.

Bruce played during open mics at The Bluebird Café in Nashville, TN and Club Passim, Cambridge, MA.

Bruce is characterized by friends and colleagues as a multi-talented man who cared about others. He mentored young engineers and encouraged other musicians. He was kind, intelligent, creative and always working to make things better for others.

Bruce is survived by his wife, Peggy, mother, Ann Kelly of Morrison, IL, brothers Brian Kelly of Morrison, IL and Brett (Amy) Kelly of Maitland, MO, sister Lisa (Brian) Davis of Midland, TX as well as aunts, uncles, nieces and nephews.

A celebration of Bruce's life through a memorial concert will be held at a later date in the Kansas City area.

