



THE SOCIETY FOR
MODELING & SIMULATION
INTERNATIONAL

POWERPLANT**SIM**

Power Plant Simulation Conference 2019

JANUARY 20-23, 2019

The Westshore Grand, A Tribute Portfolio Hotel, Tampa, Florida, USA



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

2019 PowerPlantSim

PROGRAM BOOK

January 20-23, 2019
Tampa, Florida, USA

Sponsored by SCS

General Chairs

Joe Yarbrough (Nuclear Track)
&
William Talbot (Fossil Track)

General Information

PPS 2019 Registration

(Grand Foyer)

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 2019 L3 MAPPS & SCS Reception:

Sunday, January 20, 2019

(Irish 31)

6:00 pm

PPS 2019 Exhibit Area:

(Bayshore Ballroom and Grand Foyer)

Monday and Tuesday: 8:00 am to 5:00 pm

Wednesday: 8:30 am to 10:00 am

PPS 2019 Breakfasts & Breaks

Breakfast: Mon-Wed 8:00 am to 8:30 am (Atrium)

AM Coffee Break: Mon-Thurs 10:00 am to 10:30 am (Bayshore Ballroom & Grand Foyer)

PM Coffee Break: Mon-Thurs 3:00 pm to 3:30 pm (Bayshore Ballroom & Grand Foyer)

Lunch: 12 pm to 1:30 pm (Atrium)

USUG Information:

USUG Executive Session: Sunday, 5:00 pm to 6:00 pm (Room: Westshore I)

Annual Business Meeting USUG (members only): Thursday, 8:30 am to 10:00 am
(Room: Westshore I)

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

L3 MAPPS Information:

L3 MAPPS Owners Circle™ Conference - Day 1: Thursday (Room: Westshore II)

L3 MAPPS Owners Circle™ Conference - Day 2: Friday (Room: Westshore II)

*Please note the L3 events are to be attended by invitation only.

Welcome to PowerPlantSim'19

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 2019 Power Plant Simulation Conference (PowerPlantSim'19). All attendees are welcome to attend all of the sessions and activities unless otherwise noted in the agenda.

PowerPlantSim'19 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 Westshore Grand, A Tribute Portfolio Hotel in Tampa, Florida.

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

Thank you
William Talbot, Talbot Simulation Associates
and Joe Yarbrough, Xcel Energy

Exhibitors

Exhibitors Information

L3 MAPPS

For more than 45 years, L3 MAPPS has worked with leading utilities, plant designers and research organizations to create superior operator training simulators and simulators to assist and de-risk plant builds, and has established itself as the world's pre-eminent manufacturer of nuclear power plant simulators. In addition, L3 MAPPS introduced interactive 3D early learning technologies to increase understanding and retention of nuclear plant fundamentals.

L3 MAPPS has deployed the world's highest fidelity simulators for CANDU, BWR, PWR and GCR plants.

L3 MAPPS also has vast experience in supporting New Build projects with its simulation solutions—resulting in significant error reduction in plant designs.

The superior training environments of L3 MAPPS simulators provide clear advantages for obtaining operator licenses/certification, optimizing plant-operating procedures and reducing costs. Operators trained on L3 MAPPS simulator environments acquire the skills necessary to increase plant performance, minimize downtime, and provide confident emergency response.

Visit us at PowerPlantSim 2019 to learn more.

(Booths 10/11)

CONTACT: Isabelle Derry
Isabelle.Derry@L3T.com
8565 Côte-de-Liesse
Montréal, Québec
Canada H4T 1G5
www.L-3com.com/MAPPS
LinkedIn: L3 MAPPS
Tel: 1-514-787-4999



MAPPS

Simtronics Corporation

Simtronics Corporation provides Operator Training Simulators (OTS) for the Process Industries and the Educational Institutions that train Operators and Technicians. Training Simulators provide a realistic environment for operators, engineers, technicians, and students to practice real-life scenarios including start-ups, shutdowns, troubleshooting, and emergency response.

(Booth 12)

CONTACT: Thomas Judge
tjudge@simtronics.com
P.O. Box 38
Little Silver, NJ 07739
www.simtronics.com



simtronics

Exhibitors Information

GSE Systems, Inc.

GSE Systems, Inc. (GSE) is a world leader in real-time simulation software, systems and services for the nuclear and fossil power generation industries. We also offer fully customizable training services and programs including fundamentals, plant systems, simulator scenario development, and “trainer training”. With 40 years of experience and more than 1,100 simulation and training installations in 50 countries, GSE is well positioned as a global provider to serve the individual needs of each client in today’s increasingly competitive business environment.

(Booths 4/5)

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



SimGenics Simulation Systems

SimGenics offers software solutions to enhance the quality and efficiency of technical training, and to streamline day-to-day operations at industrial facilities. Our solutions leverage existing software assets and greatly increase the return on investment for those assets. By incorporating the latest simulation and media software technologies, our SimuPact software framework is unrivalled and features a user-friendly, next-generation interface for our clients to customize the software for their needs.

Products and Services

Full Scope Training Simulators: We offer High Fidelity, Full Scope Training Simulators that are custom-built for all types of fossil/nuclear power plants and process plants. Our full-scope simulators support Simulated, Emulated and Virtual DCS/HMI integration with all major I&C vendors.

Reduced-Scope Training Simulators: The target market of these products is the same as for Full-Scope Training Simulators, the only difference being that it is stripped of most secondary elements and only focus on the primary processes and engineering principles involved. This results in a lower cost product with much of the advantages of the Full-Scope product.

Unit Process Simulators: Unit processes are focused training modules used to teach specific power plant principles, operating philosophies and control fundamentals. In addition to costing only a fraction of a full scope simulator, the advantage of unit processes is that only the necessary processes and controls are present, enabling the trainee to identify and isolate cause and effect much easier than in a full scope simulator, where complex interdependencies and controllers makes it impossible to identify exactly how operating a plant component in one area influences behavior and efficiency of components in other areas of the plant.

3D PACT: 3D PACT is a revolutionary suite of real time 3D Training and Production Support Tools. It is based on video gaming technology and adds the ability to create or use existing 3D CAD models of industrial facilities and integrate them with 3rd party software tools such as Plant Information Databases, ERP systems, or existing Training Simulators.

Exhibitors Information

SimGenics Simulation Systems (Continued)

Off-the-Shelf Simulators: SimGenics offers several off-the-shelf simulator packages to schools, colleges, universities and technical training centers. These products target both students and highly experienced professionals at all levels of industry. They run on a standard Windows XP/Vista/7 PC and features colorful, user-friendly HMI screens.

Virtual Instructor: Easily create interactive training modules that guide trainees through operating procedures. It optimizes knowledge from experienced staff.

Unrivalled Trainee Performance Measurement (TPR) options are provided:

- Instructors can compile elaborate performance requirements for trainees to comply with while executing procedures/scenarios.
- Out of Bounds (OBB) Monitor to ensure trainees never receive negative training.
- Tutorial (TUT) messages to assist trainees during training sessions, with flexible scoring penalties is assistance is required during test situations.

Instructorless 24/7 training is possible using VI's powerful scenario/procedure builder.

Office Locations

United States (Home Office – Principal place of business):

744 Horizon Court

Suite 100

Grand Junction, CO 81506

South Africa

Techno Link, Block I,

63 Regency Drive,

Route 21 Corporate Park,

Pretoria

Australia

16 McDougall Street

Level 1

Milton, QLD, 4064

(Booth 9)

CONTACT:

Caryl Darnell

cdarnell@simgenics.com

744 Horizon Court, Suite 100

Grand Junction, CO 81506

www.simgenics.com



Exhibitors Information

Tecnatom S.A.

Within the Digital Operation and Asset Management Division, the Simulation and Monitoring Area develops integrated and innovated solutions contributing to the excellent operation of the facilities.

(Booth 6)

CONTACT: Isaac Gonzalez Sevillano
igonzalez@tecnatom.es
Avda. Montes de Oca, 1
San Sebastian de los Reyes, Madrid
Spain 28703
www.tecnatom.es



CORYS Inc.

CORYS Inc. is the US subsidiary of CORYS, a French simulation company owned by Framatome (50%), EDF (25%) and IFP Training (25%). CORYS Inc. is headquartered in Jacksonville with offices in Houston and Eatontown. The company has been supplying training and engineering simulators for more than 25 years to the Power, Transportation, Oil & Gas and Chemical industries using engineering grade modelling tools, virtual environments and control room replica and/or emulations. CORYS today is a leader of replica dynamic simulators with over 3700 simulators delivered worldwide. CORYS Inc. is by far the leader of the upgrade and maintenance of US nuclear full scope simulators in all technical areas: I/O upgrades, advanced thermal hydraulic modeling with THOR, severe accident with MELCOR or flooding models and glass panel solutions. CORYS has more than 70 engineers and scientists in the U.S.

(Booths 7/8)

CONTACT: Madeline Anderson
Madeline.Anderson@corys.com
1351 Tradeport Dr.
Jacksonville, FL 32218
www.corys.com



Exhibitors Information

WSC, Inc.

WSC, Inc. headquartered in Frederick, Maryland, USA is a global simulation company founded in 1995. WSC's roots is in the nuclear power plant training simulator market through which WSC has provided new full scope simulators and modernized existing ones worldwide. WSC has also supplied high fidelity simulators to other type plants and systems such as fossil, single and combined cycle, process and pipelines, renewable energy and electrical grid.

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. In response to the Fukushima event, WSC has embedded Severe Accident Analysis modeling in 3KEYMASTER by coupling MELCOR product of Sandia National Laboratories and MAAP5 product of Electric Power Research Institute (EPRI), with 3KEYRELAP5-RT.

WSC has also achieved significant growth in Simulation Assisted Engineering (SAE) based on the strength of our "engineering grade" simulation technology. Leading companies are 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.

WSC is committed to continually improving the capabilities of its technology and widening the applicability of its simulation technology. 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.

(Booths 1/2)

CONTACT: Debbie Vandepoll
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Frederick, MD 21703
www.ws-corp.com



Agendas

Nuclear Agenda

Monday, 21 January 2019

Welcome and Introductions by Chair Joe Yarbrough (Xcel Energy)
8:30am – 9:00am Bayshore Ballroom

Session 1: Simulator Oversight and Management
9:00am – 10:00am Bayshore Ballroom Chair: Joe Yarbrough (Xcel Energy)

- *Embalse Simulator for Training and Plant Life Extension* by Michael Chatlani (L3 MAPPS)
- *Fleet Modernization and Upgrade* by Isaac González (Tecnatom)

10:00am–10:30am COFFEE BREAK

Session 2: Simulator Upgrades
10:30am – 12:00pm Bayshore Ballroom Chair: Joe Yarbrough (Xcel Energy)

- *Darlington Tritium Removal Facility Simulator* by David Lapointe (OPG), Mark Peters (Alithya)
- *Oconee Simulator Upgrade: Delivering a Challenging Project On Time and On Budget* by Leo Veilleux, Dumindra Jayasinghe (L3 MAPPS)
- *Braidwood Upgrade* by Michael Hill, Andy Jedlowski (Exelon)

12:00pm–1:30pm LUNCH

Session 3: Hardware Upgrades
1:30pm – 3:00pm Bayshore Ballroom Chair: Scott Cupp (Entergy)

- *I/O Upgrade at ANO* by Scott Cupp (Entergy)
- *Simulator Special Devices Design and Installation* by John Stone, Stanley Chan (Corys Inc)
- *Dresden Full Core Display Upgrade* by Andy Jedlowski (Exelon)

3:00pm–3:30pm COFFEE BREAK

Session 4: Simulator Modifications and Upgrades
3:30pm – 5:00pm Bayshore Ballroom Chair: Dan Tiberio (Beaver Valley)

- *Plant Modeling Made Easy* by Evangelia Papadopoulos (L3 MAPPS)
- *Southern Company New Simulator Update* by Mike Galle (Southern Co)
- *Onyx-RELAP* by Mike Battaglia (GSE)

Nuclear Agenda

Tuesday, 22 January 2019

Session 5: Non-Training Simulator Uses

8:30am– 10:00am

Bayshore Ballroom

Chair: Lowell Johnson (NextEra)

- *Utilizing the Simulator to Validate Plant Engineering Design* by Gary Degraw (NPPD)
- *Twenty-five Years Doing SAE - Questions and Lessons Learned* by Jose A. Ruíz (Tecnatom)
- *Autonomous Model Generation: Automated Processing of Plant Engineering Data* by Patrice Roth (Corys SAS)

10:00–10:30 COFFEE BREAK

Session 6: Simulator Support Systems

10:30am– 12:00pm

Bayshore Ballroom

Chair: Tim Hurley (STP)

- *Susquehanna AV Upgrade* by Michael Strawser (Talen)
- *SBT Made Easy* by George McCullough Sr. (Exitech)
- *Virtual Reality for Operations and Maintenance Training: Experiences from Other Industries* by Xavier Cyril, Leo Veilleux (L3 MAPPS)

12:00pm–1:30pm LUNCH

Session 7: Advanced Modeling (Joint Session)

1:30pm– 3:00pm

Bayshore Ballroom

Chair: Rick Baker (Exelon)

- *Development of Terry Turbine Analytical Models for RCIC Off-Design Operation Conditions* by Hongbin Zhang (Idaho National Laboratory)
- *Current Terry Turbine Expanded Operating Band Experiments* by Doug Osborn (Sandia National Labs)
- *Future Terry Turbine Expanded Operating Band Experiments and Modeling* by Doug Osborn (Sandia National Labs)
- *TDAFW/RCIC Expanded Operating Band Modeling Advancements* by Doug Osborn (Sandia National Labs)

3:00pm–3:30pm COFFEE BREAK

Session 8: Severe Accident Modeling

3:30pm– 5:00pm

Bayshore Ballroom

Chair: Aline Griffin (Grand Gulf)

- *Progression of a Severe Accident using the MELCOR Simulation Models* by Barney Panfil (Corys Inc)
- *Severe Accident Modeling and 3D Graphic Visualization* by Dr. Vladimir Nosatov (WSC), Dr. Wei Huiming (CNPSC)

Nuclear & Fossil Agenda

Wednesday, 23 January 2019

Session 9: Glass Panel/V-Panel Usage

8:30am – 10:00am

Bayshore Ballroom

Chair: Mark Parrish (PSEG)

- *Leveraging Glass Panel Use* by Mark Parrish (PSEG)
- *Pilgrim Glass Panel Usage* by Michael Chatlani (L3 MAPPS)
- *Implementation of a 4k Glass Panel Simulator* by Wayne Moran (PSEG Salem Nuclear Station), JC Hernandez (Corys Inc.)

10:00am–10:30am COFFEE BREAK

Session 10: Regulations

10:30am – 12:00pm

Bayshore Ballroom

Chair: Jim Florence (NPPD)

- *ANS-3.5-2018 Standard Update* by Jim Florence (NPPD)
- *NRC Regulatory Perspective/New Reactors Update* by Bernard Litkett (NRC)

12:00pm–1:30pm LUNCH

Session 11: Tips, Tricks, and Lessons Learned

1:30pm – 3:00pm

Bayshore Ballroom

Chair: Joe Yarbrough (Excel Energy)

- *Anecdotal Tips, Tricks and Lessons Learned - Exelon Simulators* by Rick Baker (Exelon)
- *Urgent Simulator Repairs* by Jeremy Jackson (Xcel Energy)
- *Use of Virtual Machines to Replace Obsolete Hardware* by George Marengo (APS)
- *OPG Staffing Lessons Learned* by David LaPointe (OPG)

3:00pm–3:30pm COFFEE BREAK

Session 12: Fossil Track

3:30pm – 5:00pm

Bayshore Ballroom

Chair: William Talbot (Talbot Simulation Associates)

- *Fossil Presentations and discussion on the Fossil Industry*

Nuclear Agenda

Thursday, 24 January 2019

Session 13: USUG Annual Business Meeting (USUG Members Only)

8:30am – 10:00am

Westshore I

Chair: Joe Yarbrough (Xcel Energy)

Come with 2 minute synopsis of years events (OE, INPO, NRC, etc.)

10:00am—10:30am COFFEE BREAK

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

10:30am – 12:00pm

Westshore I

Chair: Joe Yarbrough (Xcel Energy)

12:00pm—1:30pm LUNCH

Session 15: Regional Workshops

1:30am – 3:00pm

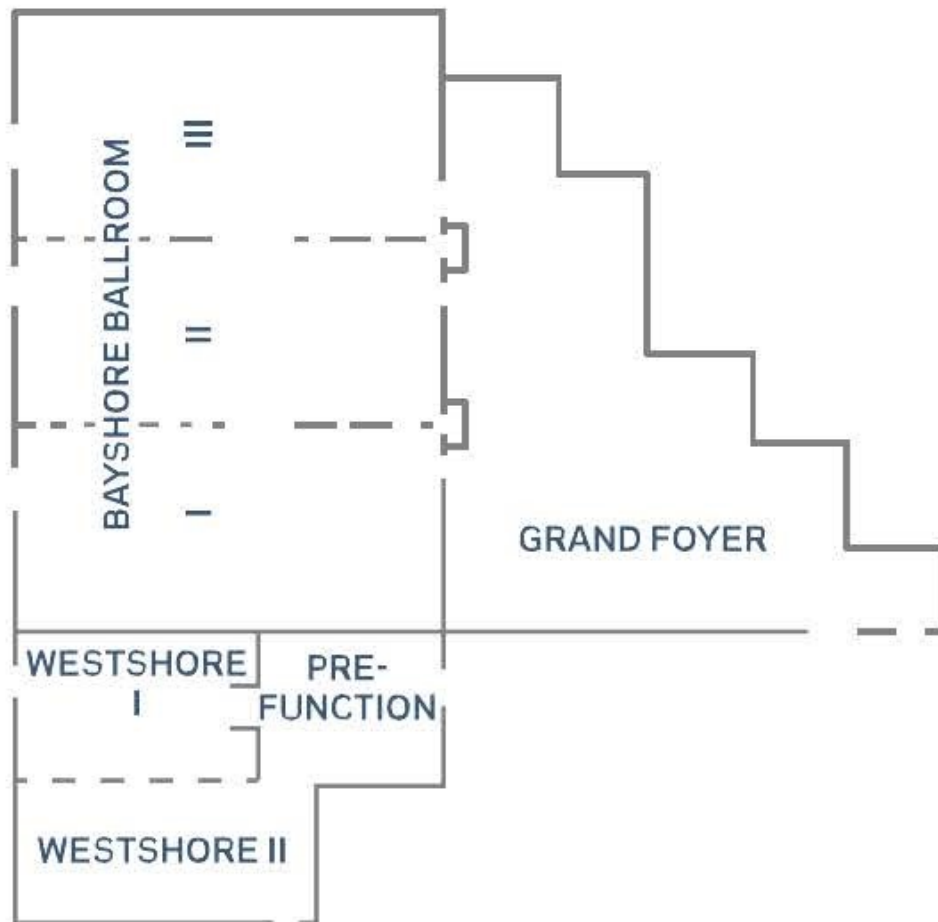
Westshore I

Notes

Maps

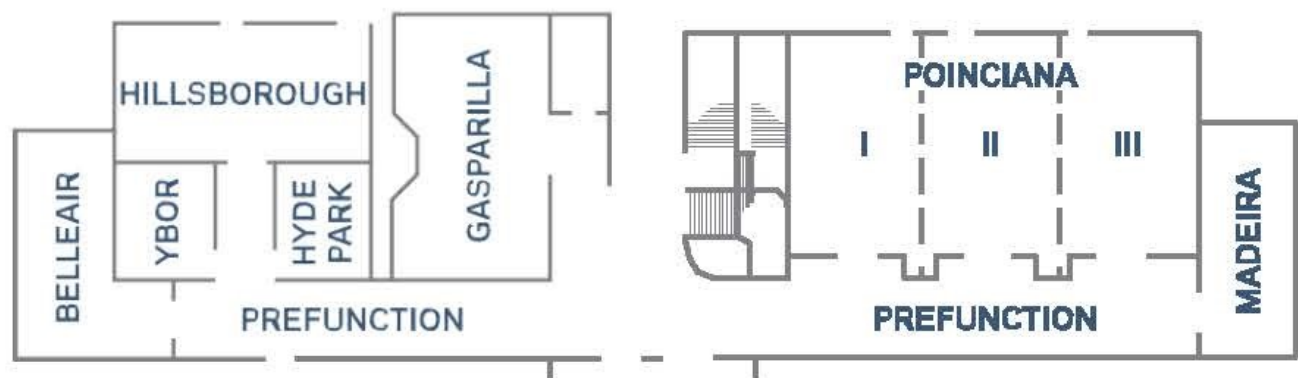
Hotel Floor Plan

Lobby Level



Hotel Floor Plan

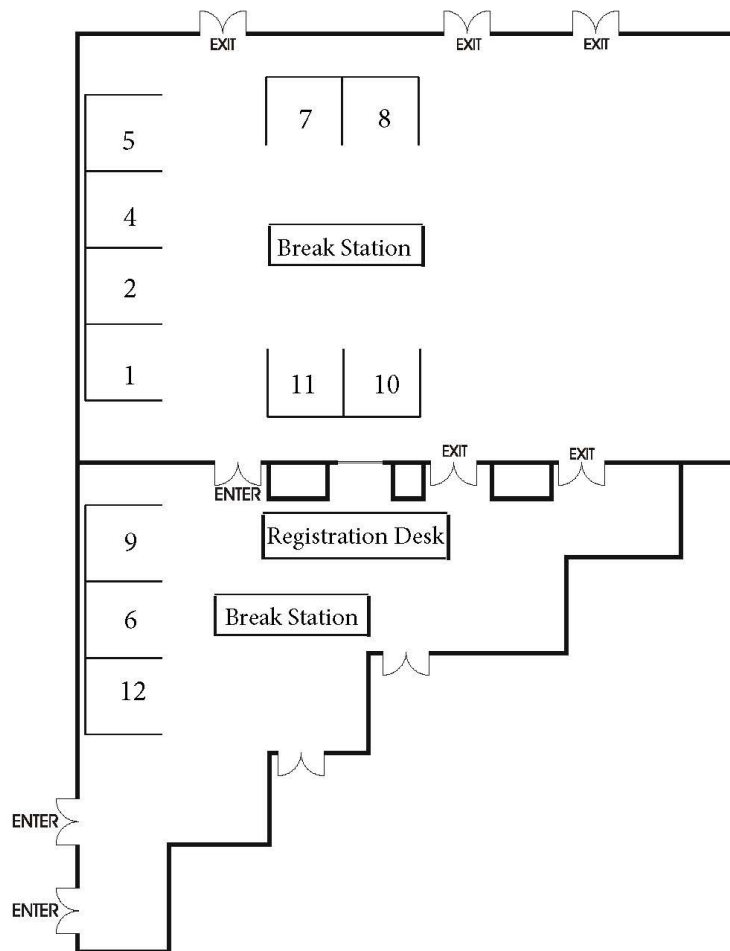
Second Floor



Exhibitors Floor Plan

Grand Foyer & Bayshore

Ballroom



Booth 1: WSC, Inc.

Booth 2: WSC, Inc.

Booth 4: GSE Systems, Inc.

Booth 5: GSE Systems, Inc.

Booth 6: Tecnatom

Booth 7: Corys, Inc.

Booth 8: Corys, Inc.

Booth 9: SimGenics Simulation Systems

Booth 10: L3 MAPPS

Booth 11: L3 MAPPS

Booth 12: Simtronics Corporation

Restaurants in Tampa

Ocean Prime

2205 N West Shore Blvd, Tampa, FL 33607-5710

+1 813-490-5288

<https://www.ocean-prime.com/>

Ocean Prime is an award winning modern American restaurant and lounge from renowned restaurateur Cameron Mitchell. With stunning settings, a vibrant energy, an impressive menu of seafood and steaks and truly exceptional service, Ocean Prime is an ideal place to socialize, talk business, celebrate and indulge.

The Capital Grille

2223 N West Shore Blvd, Tampa, FL 33607-1411

+1 813-830-9433

<https://www.thecapitalgrille.com/>

You are cordially invited to join for an evening or afternoon of relaxed elegance and exceptional cuisine. The impressive menu of nationally renowned dry aged steaks and the freshest of seafood will ignite your culinary imagination as our award-winning wine list of more than 5,000 bottles awakens your inner sommelier. Whether you're celebrating a special occasion or hosting a business luncheon or dinner, they can help you flawlessly pull off any private dining event. Our event planning staff has extensive experience and the ideal materials to work with—a capital setting, distinctive food and unmatched service.

Bern's Steak House

1208 S Howard Ave, Tampa, FL 33606-3197

+1 813-251-2421

<https://bernssteakhouse.com/>

A unique culinary experience. Perfectly aged steaks. One of the largest wine collections in the world. An internationally famous dessert room. Wine cellar and kitchen tours available for all guests. These elements have combined since 1956 to provide our guests with a unique culinary experience. The prime steaks are cut to order, vegetables are grown locally on the Bern's farm and sourced from the finest purveyors, and the menu includes 21 choices of caviar. Each visit to Bern's Steak House takes you on a gastronomic adventure that defines Bern's not as a meal but as an experience. You are invited to join and experience Bern's.

Gaspar's Grotto

1805 E 7th Ave, Ybor City, Tampa, FL 33605-3807

+1 813-248-5900

<https://gasparsgrotto.com/>

Located in Tampa's Ybor City's Historic District, Gaspar's pays homage to the legendary local pirate Jose Gaspar and celebrates Tampa's immigrant past. Gaspar's Grotto is known for its "Sunday Booze Cruise Brunch" featuring over 50+ feet of delicious food prepared by our crew. Every week the menu is slightly different but always includes a carving station, raw bar, omelet station, pasta station, smoked salmon, assorted hot dishes, desserts, pastries and more!

Restaurants in Tampa

Datz Tampa

2616 S Macdill Ave, Tampa, FL 33629-7220

+1 813-831-7000

<http://www.datztampa.com/index.html>

Since the opening of Datz on January 28, 2009, owners Roger and Suzanne Perry have sparked invention and reinvention in Tampa's food scene. They have evolved Datz into the home of comfort food with flair, in the hopes of making their sons Brandon and Matthew proud. It's a craft beer oasis, a bourbon lover's paradise, a foodie wonderland filled with bacon, cheese, and house-made breads. Datz also offers an eclectic cocktail menu with artisanal liquors found nowhere else in Tampa and boasts a seasonal menu change that reflects a growing community appetite for unique, new entrees.

Wright's Gourmet House

1200 S Dale Mabry Hwy, Tampa, FL 33629-5009

+1 813-253-3838

<http://www.wrightsgourmet.com/Default.asp>

Tampa's premier cafe deli, and catering company since 1963. They offer a wide variety of food and services to please guests. They are known especially for their hearty deli sandwiches, fresh salads, & scrumptious desserts. They are also widely recognized for their corporate catering.

Oxford Exchange

420 W Kennedy Blvd, Tampa, FL 33606-1413

+1 813-253-0222

<https://oxfordexchange.com/>

There may be nothing that brings people together as often as food and drink. A daytime affair, The Restaurant serves weekday breakfast and lunch, weekend brunch, and afternoon tea, where guests may be seated in an art filled dining room with an open kitchen or the sunlit Conservatory, complete with creeping vines and a retractable glass roof. Showcasing continued attention to detail, the menu consists of fresh, seasonal, signature dishes, complemented by an array of premium coffees, teas, and cocktails for a new translation of the classic bistro.

Al's Finger Licking Good Bar-B-Que

1609 Angel Oliva Senior St, Tampa, FL 33605-5133

+1 813-956-0675

<https://www.alsybor.com/>

Named Best BBQ in Florida! - Located in a bungalow off of 7th Ave in historic Ybor City, Al's Finger Licking Good Bar-B-Que is dedicated to serving you the most delicious barbecue food while demonstrating true Southern hospitality.

Things to Do in Tampa

Busch Gardens Tampa Bay

10165 McKinley Dr, Tampa, FL 33612

+1 813-884-4386 <https://buschgardens.com/tampa/>

Busch Gardens Tampa is a 335-acre African-themed animal theme park located in the city of Tampa, Florida. Busch Gardens Tampa is owned and operated by SeaWorld Parks & Entertainment and is their second largest park in terms of attendance behind SeaWorld Orlando.

Ybor City

Northeast of the Downtown Tampa on I-4 at Exit 1, Tampa, FL 33618

Lively Ybor City is known for boutiques and vintage shops on 7th Avenue, which also hosts Cuban and Latin American eateries. The Centro Ybor mall offers indie fast food, bars, and a cinema. Housed in a 1920s bakery, Ybor City State Museum has exhibits on the cigar industry and the area's immigrant communities. The GaYBOR district around 7th Avenue and 15th Street attracts a diverse crowd to its bars and clubs.

The Florida Aquarium

701 Channelside Dr, Tampa, FL 33602

+1 813-273-4000 <http://www.flaquarium.org/>

Go from tree level to sea level while being entertained and educated at The Florida Aquarium! With thousands of animals and plants including sharks, alligators, seahorses and more, you're sure to have an amazing aquatic experience. Begin your Aquarium adventure on our Florida Wetlands Trail. Winding through a vast mangrove forest, you'll encounter river otters, free-flying birds and native fish. Continue to the second floor of the Wetlands gallery and enter Journey to Madagascar. Filled with Ring-tailed Lemurs, hissing cockroaches and colorful chameleons, this exhibit captures the unique Island of Madagascar and the diverse animals that call it home. The next part on your journey will take you through Bays & Beaches where you'll discover a Goliath Grouper and other species that call Tampa Bay home. As you travel onward you'll descend deeper into aquatic environments where you'll discover stingrays, reef fishes, sea turtles and our massive sand tiger sharks!

Museum Of Science & Industry

4801 E Fowler Ave, Tampa, FL 33617

+1 813-987-6000 <https://www.mosi.org/>

The Museum of Science & Industry is a not-for-profit science museum located in Tampa, Florida. It is a community-based institution and educational resource that is dedicated to advancing public interest, knowledge, and understanding of science, industry, and technology.

Things to Do in Tampa

Tampa Riverwalk

Ashley Street, Tampa, FL 33602

Tampa Riverwalk is a 2.6-mile-long open space and pedestrian trail development along the Hillsborough River in Tampa, Florida. The downtown Tampa portion travels alongside the Tampa Arts District and includes Curtis Hixon Park, The Macdill Park, the Tampa Museum of Art, Glazer Children's Museum, Rivergate Tower and adjacent atrium containing the Florida Museum of Photographic Arts.

Henry B. Plant Museum

401 W Kennedy Blvd, Tampa, FL 33606-1450

+1 813-254-1891

<https://www.plantmuseum.com/>

The Henry B. Plant Museum is located in the south wing of Plant Hall on the University of Tampa's campus, at 401 West Kennedy Boulevard. Plant Hall was formerly known as the Tampa Bay Hotel, which was a 511-room resort hotel opened on February 5, 1891 by Henry B. Plant near the terminus of his rail line.

International Plaza and Bay Street

2223 N West Shore Blvd, Tampa, FL 33607

International Plaza and Bay Street, an enclosed, two-story regional shopping center with an adjacent outdoor lifestyle center, is located on the southeast edge of the Tampa International Airport. It features 200 specialty stores and 15 restaurants, plus Neiman Marcus, Nordstrom, Dillard's and Renaissance Tampa Hotel International Plaza. Shopping hours are 10 a.m. to 9 p.m. Monday through Saturday, 11 a.m. to 6 p.m. Sunday.

Sunshine Skyway Bridge

I-275, St. Petersburg, FL 33711

The Bob Graham Sunshine Skyway Bridge, known to locals as the Sunshine Skyway Bridge or more casually the Skyway, is a bridge spanning Tampa Bay, Florida, with a cable-stayed main span, and a total length of 21,877 feet.

Lettuce Lake Regional Park

6920 E Fletcher Ave, Tampa, FL 33637-0930

+1 813-987-6204

<https://hillsboroughcounty.org/locations/lettuce-lake-park>

Lettuce Lake Conservation Park is one of Hillsborough County's most visited parks. More than half of the park's property lies in the natural floodplain of the Hillsborough River, consisting of a hardwood swamp forest. The remainder of the park consists of hardwood hammocks and pine flatwoods plant communities. The park features wooded picnic areas and playgrounds, a 1.25-mile paved exercise trail and 3,500-foot boardwalk with an observation tower provides scenic views of the Hillsborough River. Park ranger and volunteer-led nature education tours are available on weekends. Canoe and kayaks rentals provide up-close encounters with a variety of aquatic birds and wildlife.

Upcoming SCS Conferences

2019 Spring Simulation Conference (SpringSim'19)

April 29–May 2, 2019

The University of Arizona, Tucson, Arizona, USA

The Spring Simulation Conference 2019 (SpringSim'19) 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'19 offers many ways to promote simulation products and to enhance corporate images. You are invited to use the Spring Simulation Conference in ways that best serve your interests.

SpringSim'19 symposia currently scheduled include (but are not limited to):

- Annual Simulation Symposium (ANSS)
- Theory and Foundations of Modeling and Simulation (TMS)
- High Performance Computing (HPC)
- Communications and Networking Simulation (CNS)
- Modeling and Simulation in Medicine (MSM)
- Tutorials
- M&S Demo Session and Student Colloquium

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



THE SOCIETY FOR
MODELING & SIMULATION
INTERNATIONAL

Upcoming SCS Conferences

2019 Summer Simulation Conference (SummerSim'19)

July 22—July 24, 2019

Technical University of Berlin, Berlin, Germany

The Summer Simulation Conference 2019 (SummerSim'19) is a combination of the 51th Summer Computer Simulation (SCSC), and the 22st International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS). SummerSim 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'19 offers many ways to promote simulation products and to enhance corporate images. You are invited to use the Summer Simulation Conference in ways that best serve your interests.

The following symposia are scheduled:

- International Symposium on Performance Evaluation of Computer and Telecommunication Systems 2019 (SPECTS'19)
- Summer Computer Simulation 2019 (SCSC'19) - See website for a full list of sub-tracks in this symposium.

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



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