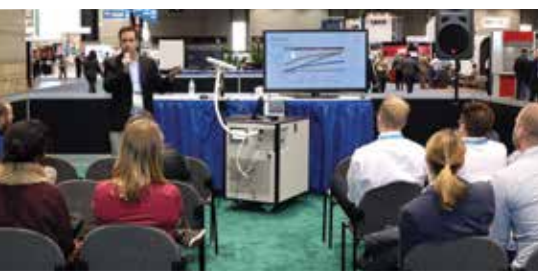




LECTURES



EXPOSITION

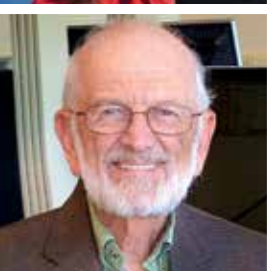
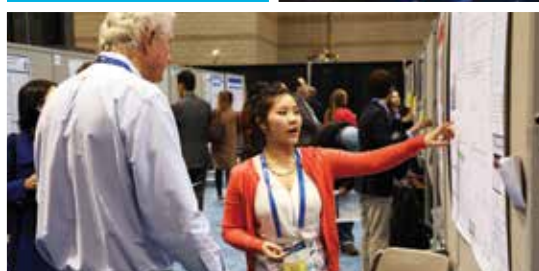


**SEE
PITTCON
IN A
NEW LIGHT
DON'T JUST ATTEND
PARTICIPATE**

**SHORT
COURSES**



NETWORKING



**TECHNICAL
PROGRAM**



PRELIMINARY PROGRAM

Program: Feb 26 – Mar 1 | **Expo:** Feb 27 – Mar 1 | **Short Courses:** Feb 24 – Mar 1

pittcon.org | Orlando, FL | Orange County Convention Center

HOW DOES PITTCON EMPOWER YOU?

1

Bolsters Survival in a Competitive World

Pittcon ensures your survival in this competitive world by keeping you up to date on the latest techniques and scientific developments to foster excellence in your work.

2

Presents Innovative Solutions

The innovative solutions and instrumentation offered on the exposition floor present many solutions to help your lab run at peak efficiency.

3

Builds Collaborative Relationships

Opportunities abound to make collaborations through various planned and impromptu networking events that will help you to form new relationships, strengthen existing ones, and expand your scientific resources.

4

Enhances Your Technical Expertise

Enriches your skills and practical and theoretical knowledge by providing access to the latest and most advanced discoveries and developments.



REGISTER BEFORE FEBRUARY 5, TO SAVE 40%.

ONLINE Registration for the Conference and Short Courses is HIGHLY RECOMMENDED. Registering online is easy, reliable, and efficient. Simply visit www.pittcon.org for easy to follow Instructions. Once you complete conference and short course registration online, you will immediately receive an email confirmation. You may also update and change your registration online.

PRICES AND DEADLINES			
REGISTRATION TYPE	THRU 2/5/2018	AFTER 2/5/2018	ONSITE
Conferee	\$190	\$325	\$325
Graduate Student <i>(Student ID required on site)</i>	\$25	\$25	\$25
Undergraduate Student <i>(Student ID required on site)</i>	\$25	\$25	\$25
Expo Only	\$100	\$100	\$100
One Day <i>(Mon. - Program Only)</i>	N/A	\$150	\$150
One Day <i>(Tue. or Wed. - Program & Expo)</i>	N/A	\$150	\$150
One Day <i>(Thurs. - Program & Expo)</i>	N/A	N/A	FREE

Discounts

- Register for three paid Short Courses, and receive FREE conferee registration.
- Purchase three regular conferee registrations, and get a fourth registration FREE.

Payment

Online registration generally requires a valid credit card (American Express, Discover Card, Master Card or VISA).

However, during the online registration process, you may choose to receive an invoice via email to pay by check or money order (payable to **The Pittsburgh Conference**). International attendees may pay by check only if the check is drawn on a U.S. bank in U.S. funds.

The following methods of payment will be accepted on site:

- Check or money order payable to **The Pittsburgh Conference**
- Credit card (American Express, Discover Card, Master Card, VISA)

Cancellation Policy

Cancellation requests must be submitted in writing to registration@pittcon.org.

- If you cancel your Conference registration on or before February 5, 2018, the amount paid less a \$25 cancellation fee will be refunded.
- If you cancel your Conference registration after February 5, 2018, the amount paid less a \$100 cancellation fee will be refunded.
- Short Course cancellations made by February 5, 2018, will be issued a full refund less a \$25 processing fee for each course cancelled.
- Short Course cancellations made between February 6 and February 25, 2018, will incur a \$100 administrative charge per course, only if the short course notes were NOT DOWNLOADED.
- **If Short Course notes ARE DOWNLOADED between February 6 and February 25, 2018, course changes or refunds WILL NOT BE PROCESSED.**
- Conference registration and Short Course cancellations will not be refunded after February 25, 2018. All cancellations are subject to separate fees.

HOTEL INFORMATION

Hotel Info

Get exclusive low hotel rates by booking online at www.pittconhousing.com. The online reservation process is easy, and your room reservations will be confirmed immediately. See www.pittcon.org for hotel list and map.

Choose One Of The Following Methods To Make Your Housing Reservation

Internet: (Recommended): www.pittconhousing.com

Phone: Toll free: 855-992-3353
International: 312-527-7300

E-Mail: Pittcon@onpeak.com

Reservation Cut-Off Date

Reservations must be received no later than February 2, 2018, for best selection.

Call-in reservations will be accepted, based on availability, up to the date of the show.

Air Transportation

For your air travel arrangements to Orlando, contact:

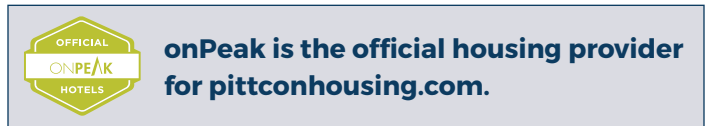
Sarah Applin

Travel Market Vacations

A member of Virtuoso

E-Mail: sarah@travelmarketvacations.com

Phone: 262-241-4040



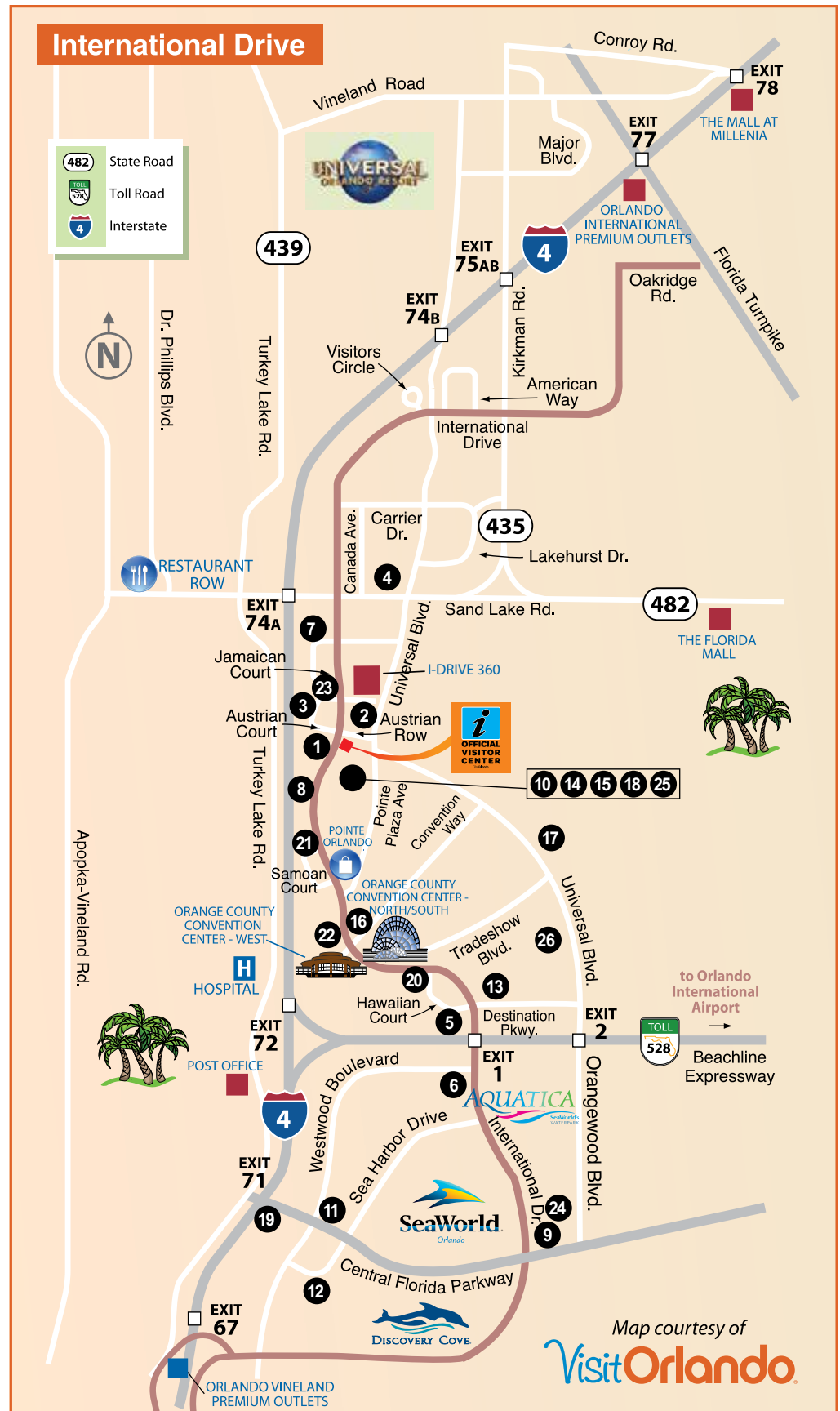
Pittcon 2018 Official Hotels and Rates

Hotel	Address	Rates	Internet	Breakfast
Avanti	*8738 International Dr	\$104.00	X	(\$)
Courtyard by Marriott International Drive/Convention Center	*8600 Austrian Court	\$169.00	X	(\$)
Crowne Plaza Universal	7800 Universal Blvd	\$186 Standard / \$216 Club Room	X	(\$)
Days Inn Convention Center	9990 International Dr	\$99.00	X	(\$)
Doubletree Orlando Resort	10100 International Dr	\$149 Resort Room / \$159 Tower Room	X	(\$)
Embassy Suites International Drive/Convention Center	8978 International Dr	\$239 King / \$259 Double	X	X
Embassy Suites International Drive/Jamaican Court	8250 Jamaican Court	\$239.00	X	X
Fairfield Inn & Suites by Marriott at SeaWorld	10815 International Dr	\$159.00	X	X
Hampton Inn Convention Center	8900 Universal Blvd	\$174.00	X	X
Hilton Garden Inn SeaWorld	6850 Westwood Blvd	\$169.00	X	(\$)
Hilton Grand Vacations Club Seaworld	6924 Grand Vacations Way	\$149 Studio / \$189 One BR Suite	X	(\$)
Hilton Orlando Convention Center (Optional Resort Fee)	6001 Destination Parkway	\$259 Standard / \$343 Club Room	X	(\$)
Homewood Suites by Hilton International Dr	8745 International Dr	\$204.00	X	X
Hyatt Place Convention Center	8741 International Dr	\$169.00	X	(\$)
Hyatt Regency Orlando (Mandatory \$10 Resort Fee)	9801 International Dr	\$261.00	X	(\$)
Las Palmeras	9501 Universal Blvd	\$229 Studio / \$259 One BR Suite	X	(\$)
Residence Inn by Marriott Convention Center	8800 Universal Blvd	\$184.00	X	X
Residence Inn by Marriott SeaWorld International Center	11000 Westwood Blvd	\$169.00	X	X
Rosen Centre Hotel	9840 International Dr	\$245.00	X	(\$)
Rosen Inn at Pointe Orlando	9000 International Dr	\$105.00	X	(\$)
Rosen Plaza Hotel	9700 International Dr	\$234.00	X	(\$)
Sonesta ES Orlando Suites	8480 International Dr	\$189 One BR Suite / \$239 Two BR Suite	X	X
SpringHill Suites by Marriott Convention Center	8840 Universal Blvd	\$179.00	X	X
SpringHill Suites by Marriott Orlando at SeaWorld	10801 International Dr	\$164.00	X	X
The Castle Hotel, Autograph Collection	8629 International Dr	\$209.00	X	(\$)
Vista Cay by Millenium	4874 Cayview Ave	\$158 Two BR / \$163 Three BR	X	(\$)

HOTEL LOCATIONS

Hotel Locations

- 1 Avanti Resort
- 2 Castle Hotel, Autograph Collection
- 3 Courtyard Orlando International Drive Convention Center
- 4 Crowne Plaza Orlando Universal
- 5 Days Inn Orlando Convention Center
- 6 DoubleTree by Hilton Orlando at SeaWorld
- 7 Embassy Suites Hotel Jamaican Court
- 8 Embassy Suites International Drive/Convention Center
- 9 Fairfield Inn & Suites at SeaWorld
- 10 Hampton Inn Convention Center
- 11 Hilton Garden Inn Orlando at SeaWorld
- 12 Hilton Grand Vacations Club at SeaWorld
- 13 Hilton Orlando
- 14 Homewood Suites by Hilton-International Drive
- 15 Hyatt Place Orlando Convention Center
- 16 Hyatt Regency Orlando
- 17 Las Palmeras by Hilton Grand Vacations
- 18 Residence Inn Orlando Convention Center
- 19 Residence Inn Sea World International Center
- 20 Rosen Centre Hotel
- 21 Rosen Inn at Pointe Orlando
- 22 Rosen Plaza Hotel
- 23 Sonesta ES Suites Orlando
- 24 SpringHill Suites Orlando at SeaWorld
- 25 SpringHill Suites Orlando Convention Center
- 26 Vista Cay Resort by Millennium



SPECIAL LECTURES



WALLACE H. COULTER LECTURE

*“Analytical Science in Precision
Medicine: Facing the Challenges
of the 21st Century Healthcare”*

Presented by:

Professor Jeremy K. Nicholson

Head of the Department of Surgery and Cancer and
Director of the MRC-NIHR National Phenome Centre
Faculty of Medicine

Monday, February 26, 2018 - 5:00 PM

(Mixer immediately following lecture)



PLENARY LECTURE

*“Optical Microscopy:
The Resolution Revolution”*

Presented by:

Stefan W. Hell

Director at the Max Planck Institute for Biophysical
Chemistry in Göttingen and Director at the Max Planck
Institute for Medical Research in Heidelberg

Tuesday, Feb 27, 2018 - 5:00 PM

(Mixer immediately following lecture)

The Twenty-Ninth James L. Waters Symposium

Monday, February 26, 2018 - 1:30 PM

“Ambient Ionization Mass Spectrometry for Imaging and Analysis”

Speakers & affiliations



Justin Wiseman,
Prosolia, Inc.



Pieter Dorrestein,
University of California
San Diego



Richard N. Zare,
Stanford University



R. Graham Cooks,
Purdue University



Thalappil Pradeep,
Indian Institute of
Technology, Madras

AGENDA

SUNDAY EVENING FEBRUARY 25, 2018

ACS ANYL Poster Session

Sunday Poster Session

MONDAY MORNING, FEBRUARY 26, 2018

AWARDS AND SYMPOSIA

The Chromatography Forum of Delaware Valley
Dal Nogare Award

The Pittsburgh Conference Achievement Award

Advances in Raman Spectroscopy

Analytical Cannabis Symposium

Emerging Frontiers in Nanoscale Optical Imaging

Human-on-a-Chip Systems for Toxicology and Drug Discovery

IAEAC - Thinking Outside of the Box

MALDI Imaging for Neurochemistry

Nanomaterials-Inspired Biosensing for Biomedical Applications

Structural Mass Spectrometry and Top Down Proteomics of Proteoforms and Their Complexes

Wearable and Point-of-Care Sensor Technologies for Biomonitoring

WORKSHOP

How to be Successful in Your Career

ORGANIZED CONTRIBUTED SESSIONS

Ionophore-Based Chemical Sensors I

PAI-NET - Advanced Imaging and Sensing Technologies

ORAL SESSIONS

Bioanalytical - Microfluidics/Lab-on-a-Chip

Capillary Electrophoresis

Environmental - Part I

Food Safety - GC, ICP-MS and LC/MS

Innovations in Teaching

Polymers - Measurement of Properties and Analyses

Quality/QA/QC

POSTER SESSIONS

Bioanalytical - Capillary Electrophoresis

Bioanalytical - Fluorescence/Luminescence

Bioanalytical - Vibrational Spectroscopy

Biomedical - Raman

Clinical and Toxicological Analyses

Fluorescence/Luminescence

LIMS - Information, Data and Integration

Mass Spectrometry - Bioanalytical, Biomedical, Environmental and Others

Microfluidics/Lab on a Chip

Nanotechnology - General

Nanotechnology - Physical Measurements

Vibrational Spectroscopy

MONDAY AFTERNOON, FEBRUARY 26, 2018

THE WALLACE H. COULTER LECTURE

Jeremy K. Nicholson, Imperial College London - "Analytical Science in Precision Medicine: Facing the Challenges of the 21st Century Healthcare"

AWARDS AND SYMPOSIA

The LCGC Lifetime in Achievement and Emerging Leader in Chromatography Awards

The Pittcon Heritage Award

The SEAC - Charles N Reilley and Royce W Murray Awards

Analytical Chemistry and ACS ANYL - New Measurement Approaches for Environmental Sampling and Measurement

Hybrid Nanostructured Materials for Analytical and Bioanalytical Applications

MS Based High-Throughput Screening for Drug Discovery

New Instrumental Approaches for Remote and Field Applications of Atomic Spectrometry

Raman Spectroscopy for Neuroscience

Reducing Threats to Food Safety, Farm to Fork: Advances in Instrumental Applications

Single Cell Analysis for Precision Medicine

The Twenty-Ninth James L. Waters Symposium - Ambient Ionization Mass Spectrometry for Imaging and Analysis

WORKSHOP

Data Science in the Chemistry Curriculum

ORGANIZED CONTRIBUTED SESSIONS

Extractables and Leachables Analysis

Field Spectroscopic Applications: Point of Care, Safety & Security, and Environmental Scenarios

Novel Applications of Advanced Analytical Techniques in Clinical Cancer Diagnosis and Therapeutics

ORAL SESSIONS

A Closer Look at Clinical Toxicology Screening in Different Matrices

Advances in Fuels, Energy, and Petrochemical Analysis

Environmental - Part II

Gas Chromatography - Method Development

Gas Chromatography - Micro GC

Homeland Security/Forensics - On-Site Instrumentation

Laboratory Management/Laboratory Informatics

Microscopy - Recent Advances and Applications

Process Analytical Chemistry

Sensors - Bioanalytical

AGENDA CONTINUED

POSTER SESSIONS

Bioanalytical and Neurochemistry
Neurochemistry Capillary Electrophoresis
Polymers and Plastics
Sensors
Sensors - Biomedical and Bioanalytical

TUESDAY MORNING, FEBRUARY 27, 2018

AWARDS AND SYMPOSIA

Advances in Measurement Science Lectureship Awards
ACS Sensors and ACS ANYL - Frontiers in Sensors - In Situ Luminescent Sensing, From Cell to Organism
Analysis of Natural and Synthetic Micro- and Nano-Particles in Biological Environments
Challenges in Surface Vibrational Spectroscopy
Disease Diagnosis Enabled by Integrated Microfluidic Systems
IAEAC - Nanobiosensors for Food Safety
Label-Free Methods for High-Throughput Screening
New Spectroscopic Approaches to Protein Structure - Understanding Amyloid Fibrils
New Technologies for Rapid Monitoring of Neurochemicals In Vivo
Recent Advances in Two-Dimensional Liquid Chromatography Separations
Recent Developments and Future Directions in Clinical Tissue Analysis: Towards In Vivo and Real-Time Diagnostics
State-of-the-Art Optical Microscopy for Polymer Nanostructure Characterization
The Role of Ultrahigh-Resolution Mass Spectrometry in the "Omics" Era

ORGANIZED CONTRIBUTED SESSIONS

Ionophore-Based Chemical Sensors II

ORAL SESSIONS

Analytical Applications in Material Science
Chemometrics
Homeland Security/Forensics - Technological Advances
Liquid Chromatography - Pharmaceutical
Mass Spectrometry - Omics, Food Identification/Science and Homeland Security
Sample Preparation and Microextraction
Separation Sciences
Solving Environmental and Pharmaceutical Problems Using Applied Atomic Spectroscopy

POSTER SESSIONS

Bioanalytical - GC/MS
Bioanalytical - LC/MS
Bioanalytical - Liquid Chromatography
Bioanalytical - Mass Spectrometry
Biomedical - Mass Spectrometry

Biomedical Electrochemistry
Gas Chromatography/Mass Spectrometry - Bioanalytical and Clinical
Liquid Chromatography
Quality/QA/QC
Sample Preparation and Chromatography
Sample Preparation and Microextraction
Sampling and Process Applications

TUESDAY AFTERNOON, FEBRUARY 27, 2018

PLENARY LECTURE

Stefan W. Hell, Max Planck Institute - "Optical Microscopy: The Resolution Revolution"

POSTER SESSIONS

Agriculture
Environmental
Gas Chromatography/Mass Spectrometry - Food Safety and Food Science
Genomics, Proteomics, and Other 'Omics
Liquid Chromatography/Mass Spectrometry - Omics and Environmental
Mass Spectrometry - Others
Nanotechnology - Bioanalytical
Nanotechnology - Electrochemistry
Sensors - Materials and Environmental

WEDNESDAY MORNING, FEBRUARY 28, 2018

AWARDS AND SYMPOSIA

The Pittsburgh Spectroscopy Award
The Satinder Ahuja Award for Young Investigators in Separation Science
Advances in the Analysis of Disinfection By-Products
Advances Multimodal Chemical Imaging Instrumentation
Biochemical Analysis at the Limits of Single Molecules and Single Cells
Biological Mass Spectrometry Instrumentation and Applications
JAIMA - Analytical Solutions for Biopharma and Biotherapeutics I
Mini Mass Spectrometers
Molecules and Materials for Advanced Bioimaging and Diagnostics
Nanobiotechnology Against Cancer, Heart and Neurological Diseases: A Fight in Progress
NIJ - Emerging Technologies for the Analysis of Trace Evidence Materials Collected from Crime Scenes
Recent Advances in Laser Induced Breakdown Spectroscopy
Spatially Resolved Molecular Analyses of Biological Systems
What is in Your E-Cigarette

ORGANIZED CONTRIBUTED SESSIONS

Pushing the Limits of In Vivo Neurotransmitter Detection

AGENDA CONTINUED

ORAL SESSIONS

Bioanalytical Electrochemistry
Bioanalytical Sensors
Data Analysis and Manipulation
Nanotechnology - Bioanalytical and Imaging
Sample Preparation and Extraction

POSTER SESSIONS

Analytical Applications in Material Science
Application of Liquid Chromatography/Mass Spectrometry
Food Science
Fuels, Energy, and Petrochemical Analysis
SEAC Posters
Surface Analysis and Imaging

WEDNESDAY AFTERNOON, FEBRUARY 28, 2018

AWARDS AND SYMPOSIA

The Coblenz Society - Williams-Wright Award
The Ralph N Adams Award
Assessing Community-Wide Health Via Sewage Wastewater
Bioanalytical Microsampling with Direct MS Determinations
Defending Against Food Fraud: Utilizing Old and New Technologies in the Fight Against Adulteration
JAIMA - Analytical Solutions for Biopharma and Biotherapeutics II
Journal of Proteome Research and ACS ANYL - Advancing Measurement of the Proteome
Neurotransmission at Single and Nano-Resolved Bio-Structures
NIJ - Analytical Methods in Forensic Biology and DNA Analysis - Proteomics, Genomics, and Bioinformatics
SAS - Frontiers in LIBS Imaging
Silicon Nanoparticles for Sensing and Imaging
Woven with Color: Chromatographic and Spectroscopic Analysis of Dyes in Museum Textiles

WORKSHOP

Innovative Ways to Engage Students in Analytical Chemistry

ORGANIZED CONTRIBUTED SESSIONS

A Symphony of Neurochemical Tools 2.0
Overview of Recent Developments in Ultrafast Chromatography: From Theory to Applications
SEAC: The Student Session in Electroanalysis

ORAL SESSIONS

Gas Chromatography/Mass Spectrometry - Environmental Analysis
High Throughput Chemical Analysis
Liquid Chromatography - High-Throughput
Pharmaceutical - Chromatography and Mass Spectrometry

POSTER SESSIONS

Advances in Applications of Microscopy
Application of Gas Chromatography/Mass Spectrometry
Development of Portable Instrumentation
Gas Chromatography
Liquid Chromatography/Mass Spectrometry - Miscellaneous
Process Studies and Improvements
Separation Sciences
Undergraduate Poster Session

THURSDAY MORNING, MARCH 1, 2018

AWARDS AND SYMPOSIA

The Pittsburgh Analytical Chemistry Award
Advances in Blood-Based Diagnostics Using Raman Scattering and Other Techniques
Advances in Nucleic Acid Aptamers as Molecular Tools in Nanotechnology and Theranostics Development
Advances in Sensors for Agriculture
Applications of Low Frequency Raman Spectroscopy
Development of Omics Sciences in Brazil
Next Generation Separations Technology and Chemistry
Powerful New Ionization Processes in Mass Spectrometry
Precompetitive Collaborations on Enabling Technologies for Pharmaceutical Research and Development

ORGANIZED CONTRIBUTED SESSIONS

Innovations and Trends in Forensic Examination of Seized Drugs and Forensic Toxicology
Specialty Gases

ORAL SESSIONS

Bioanalytical - Electrochemistry
Fluorescence/Luminescence
Food Safety - Sensors, GC/MS, and Others
Liquid Chromatography/Mass Spectrometry - Bioanalytical and Biomedical
Microfluidics/Lab on a Chip - Biomedical
Molecular Spectroscopy
Nanotechnology - Electrochemistry
Neurochemistry - Normal and Pathological Brain Measurements
Neurochemistry of Serotonin and Dopamine
Sensors - Biomedical
Vibrational Spectroscopy

POSTER SESSIONS

Analyses of Consumer Products
Chemical Methods
Electrochemical Sensing
Food Safety - LC, GC, and MS
Gas Chromatography/Mass Spectrometry - General Interest, Fuels and Energy

AGENDA CONTINUED

Liquid Chromatography - Environmental
Liquid Chromatography - General Interest and Others
Pharmaceutical - Chromatography and Mass Spectrometry
Pharmaceutical - Vibrational Spectroscopy
Pharmaceutical Analyses

THURSDAY AFTERNOON, MARCH 1, 2018

SYMPOSIA

Advances in Environmental Analytical Chemistry: Impacts on Modern Petroleum Production Monitoring and Oil Spill Science
Automation in the Pharmaceutical Research and Development Laboratory
Emerging Optical Techniques and the Death of Brute Force Explosives Detection
Enhancement Mechanisms in Vibrational Spectroscopy for Studying Thin Films and Biomolecules: Evolution, Revolution or Back to the Future
Imaging-Based Methods to Evaluate Tissues, Tumors, and 3D Tumor Models
Metabolomics Today: MS vs. NMR?
Metallomics: Does Analytical Science Still Have a Role?
Point-of-Care Sensors for Emerging Infectious Diseases
SAS - Leading Edge Women in the Field of Applied Spectroscopy: Future Frontiers and Directions

WORKSHOP

National Science Foundation (NSF) - Funding Opportunities for Nano-Biosensing and Early Career Investigators
The Latest Developments in (U)HPLC Column Technology

ORGANIZED CONTRIBUTED SESSIONS

Elemental Analysis in Pharmaceutical Research, Beyond Elemental Impurities
Food, Photonics and Field Spectroscopy - Are All the Components Available and Understood?

ORAL SESSIONS

Food Science
Liquid Chromatography - Bioanalytical
Mass Spectrometry - Bioanalytical and Biomedical
Microfluidics/Lab on a Chip - Bioanalytical
Neurochemical Electrochemistry
Pharmaceutical - Liquid Chromatography
Surface Enhanced Raman

POSTER SESSIONS

Drug Discovery
Food Safety - Sensors, and Others
New Method
NIJ Forensic Science Research & Development
Poster Session

AWARDS

An important function of Pittcon is to recognize and honor scientists who have made outstanding contributions to analytical chemistry and applied spectroscopy.

The Pittsburgh Analytical Chemistry Award

— Xiaowei Zhuang, Harvard University

The Pittsburgh Spectroscopy Award

— Michael D. Fayer, Stanford University

The Pittsburgh Conference Achievement Award

— Parastoo Hashemi, University of South Carolina

The Pittcon Heritage Award

— Mike Morris, SpectrEcology

The Ralph N. Adams Award

— Chad A. Mirkin, Northwestern University

The Chromatography Forum of Delaware Valley Dal

Nogare Award — Robert T. Kennedy, University of Michigan

The Coblenz Society - Williams-Wright Award

— Charles R. Anderson, Spectral Systems, LLC

The SEAC Charles N. Reilley

— Patrick Robert Unwin, University of Warwick

The LCGC Lifetime Achievement in Chromatography

— Ronald E. Majors, ChromPrep

Advances in Measurement Science Lectureship Awards

— Neil Kelleher, Northwestern University | Francesco Ricci, University of Rome | Kourosh Kalantar-zadeh, RMIT University

The SEAC Royce W. Murray

— Parastoo Hashemi, University of South Carolina

The Satinder Ahuja Award for Young Investigators in

Separation Science — Zachary S. Breitbach, AbbVie

The LCGC Emerging Leader in Chromatography

— Zachary S. Breitbach, AbbVie

SHORT COURSES

The 2018 Short Courses, offered at beginner and intermediate levels, range from one-half day up to two-days. There are a wide variety of more than 100 classes covering relevant analytical topics in food science, water/wastewater, environmental, life science, and pharmaceutical. Courses for broad-based application and general lab functions include lab management, quality control, technical writing, statistics, data management, and lab safety. Full course listings and descriptions available on the mobile app and at www.pittcon.org.

Benefits of taking Short Courses

- Affordable costs compared to other venues
- Learn techniques and solutions to improve job productivity
- Gain valuable practical technical knowledge to enhance your skills
- Certificates will include continuing education hours

Pricing

2-day course | \$1,100 after 2/5 - \$1,500

1½-day course | \$850 after 2/5 - \$1,175

1-day course | \$575 after 2/5 - \$775

½-day course | \$325 after 2/5 - \$425

In addition to core courses, there are 23 NEW classes added this year

*Chemical Sensors & Detectors in Real Time
Chemical Analysis*

Survey of Materials Characterization Methods

*Polymers: An Introduction and Characterization
Techniques*

*Imaging Based Morphology Applied to
Nano-Structures Characterization*

Sampling and Sample Preparation

*Pyrolysis Techniques in the Analysis of Natural
and Synthetic Materials*

Extractable Leachable Practical Workshop

*Setting Your Company Up for Computer System
Validation (CSV) Success*

*The Secrets of Successful Lab Informatics
Implementations*

*Practical Approaches to Review of GMP
Audit Trail Entries*

What To Do When C18 Doesn't Work

*Frontiers In Atomic Spectrometry Using
ICP/MS As Ionisation Source I: Speciation
Analyses For Environmental, Nutrition
and Industrial Applications*

*FDA's Update on Elemental Impurities
According to the New ICH Q3D and
USP 232/233 Guidelines - Are You Ready?*

*Volume Verification, Good Liquid Handling,
and Automated Sample Prep and Detection*

*Laboratory Equipment and Facility
Management Systems*

*Automated Liquid Handling in Accredited
or Forensic Environments*

New Technology Commercialization

*Countercurrent Chromatography and
Centrifugal Partition Chromatography*

*Mastering High Performance Liquid
Chromatography (HPLC)*

*HPLC/UHPLC for Practicing Scientists 1:
Fundamentals and Pharmaceutical Applications*

*HPLC/UHPLC for Practicing Scientists 2:
Method Development, Troubleshooting
and Biopharmaceutical Applications*

*Auditing GMP Regulated Laboratories Preparation
and Execution*

How to be Successful in Scientific Publishing

EXPOSITION

NEW! THREE DAY EXPO – Tuesday, February 27 – Thursday, March 1

The dynamic global exposition will feature instruments and services from more than 750 leading companies. You will have the opportunity to get a hands-on look at the latest innovations, evaluate and compare products, and network with technical experts to find solutions to your laboratory challenges.

In addition to laboratory products, enjoy these educational and entertaining attractions.

NEW THIS YEAR

Nexus Theaters

The Nexus will be two theater style settings on the exposition floor where you can participate in interactive presentations. These 30-minute sessions will be informative, engaging and dynamic. For a complete schedule of the Nexus presentations, visit pittcon.org/nexus.

Alligator Alley

Located in the middle of the exposition floor, Alligator Alley will engage all the senses and will be an experience that you won't want to miss. In addition to providing places to rest or grab lunch, the "Alley" will offer several exciting activities in which conferees can participate.



Gator Meet 'n Greet - Get ready for your own up-close encounter with an American alligator



Lab Gauntlet - Test your lab skills on a variety of fun but challenging lab activities.



Virtual Reality Experience - Virtual reality creates an immersive experience that will transport you to amazing places.



LEGO® Gravity Car Racing - A competition like no other. You build then race your LEGO car down a sloped track powered by gravity.

DEMOZONE SCHEDULE

Participate in live product demos presented by leading companies featuring innovations to enhance lab efficiency.

Company	Title	Day	Start Time	Location
Labconco Corporation	How do I Freeze Dry More Effectively?	Tues.	10:00 AM	DemoZone 1, Booth #2142
Ocean Optics, Inc.	Ocean Optics, Inc.	Tues.	10:30 AM	DemoZone 2, Booth #2342
Thermo Fisher Scientific	Automated Photometric Analysis of Environmental Water, Drinking Water, Detergent, Food and Beverage with Thermo Scientific™ Gallery™ Discrete Analyzer	Tues.	11:00 AM	DemoZone 1, Booth #2142
Ibsen Photonics	How to Address Four Common End-User Requirements in Spectroscopy	Tues.	11:30 AM	DemoZone 2, Booth #2342
Spheryx Inc.	xSight: Next Generation of Particle Characterization Using Total Holographic Characterization	Tues.	12:00 PM	DemoZone 1, Booth #2142
Pfeiffer Vacuum	Rugged Vacuum Systems for Portable Mass Spectrometers	Tues.	12:30 PM	DemoZone 2, Booth #2342
SEAL Analytical	SEAL Analytical AA500 Segmented Flow Demonstration	Tues.	1:00 PM	DemoZone 1, Booth #2142
Metrohm	Metrohm Raman	Tues.	1:30 PM	DemoZone 2, Booth #2342
B&W Tek	Portable Raman for Tablet Analysis	Tues.	2:00 PM	DemoZone 1, Booth #2142
Intellitech, Inc.	Where Biodiversity Meets Biodiscovery!	Tues.	2:30 PM	DemoZone 2, Booth #2342
Computrac® by Arizona Instrument LLC	Karl Fischer is All Wet - Introducing Chemical Free Moisture Analysis for Pharmaceuticals	Tues.	3:00 PM	DemoZone 1, Booth #2142
A2LA	2017 Revision of ISO/IEC 17025	Tues.	3:30 PM	DemoZone 2, Booth #2342
Brooks Rand Instruments	Portable Mercury Analyzer for Solids	Tues.	4:00 PM	DemoZone 1, Booth #2142
Trajan LEAP Technologies	A Fraction Above the Rest: Next Generation Fraction Collection Automation	Tues.	4:30 PM	DemoZone 2, Booth #2342
Labconco Corporation	A Modern Approach to Volumetric Pipette Cleaning	Wed.	10:00 AM	DemoZone 1, Booth #2142
LH Technologies	See How the Emerald e-Burette Increases Efficiency and Accuracy One Drop at a Time	Wed.	10:30 AM	DemoZone 2, Booth #2342
Metrohm	Metrohm Titration	Wed.	11:00 AM	DemoZone 1, Booth #2142
LECO Corporation	TGM800: Automated Thermogravimetric Moisture Determination	Wed.	11:30 AM	DemoZone 2, Booth #2342
Computrac® by Arizona Instrument LLC	Karl Fischer is All Wet - Introducing Chemical Free Moisture Analysis by Computrac	Wed.	12:00 PM	DemoZone 1, Booth #2142
Advanced Chemistry Development, Inc. (ACD/Labs)	Impurity Data Management--From Excel to Accelerated	Wed.	12:30 PM	DemoZone 2, Booth #2342
Kett	Kett NIR analyzers	Wed.	1:00 PM	DemoZone 1, Booth #2142
Trajan LEAP Technologies	It's All in the Delivery: A New Age of Microdispensing with the Certus Flex	Wed.	1:30 PM	DemoZone 2, Booth #2342
SEAL Analytical	Live Demo of SEAL Analytical's Discrete Chemistry Analyzer- AQ400	Wed.	2:00 PM	DemoZone 2, Booth #2342
Shimadzu Scientific Instruments	Shimadzu IRspirit - FTIR Spectrophotometer - Designed to Meet Your Specific Application Need!	Wed.	2:30 PM	DemoZone 2, Booth #2342
B&W Tek	Handheld LIBS for Pharmaceutical Raw Material Identification: Delivering Solutions that Maximize Value	Wed.	3:00 PM	DemoZone 1, Booth #2142
BrandTech Scientific, Inc.	BRAND LHS Liquid Handling	Wed.	3:30 PM	DemoZone 2, Booth #2342
IONICON	The Air We Breathe In & Out at Pittcon...Analyzed in Real-Time!	Wed.	4:00 PM	DemoZone 1, Booth #2142
Artel	What Makes the Difference? How Pipetting Affects Test Results	Wed.	4:30 PM	DemoZone 2, Booth #2342
Advanced Energy	High Voltage Power Supply	Thur.	10:00 AM	DemoZone 1, Booth #2142
Intellitech, Inc.	Where Biodiversity Meets Biodiscovery!	Thur.	11:00 AM	DemoZone 1, Booth #2142
Artel	What Makes the Difference? How Pipetting Affects Test Results	Thur.	11:30 AM	DemoZone 2, Booth #2342
McCrone Group	Investigational Analysis: The Microscopy Particle Approach	Thur.	12:00 PM	DemoZone 1, Booth #2142
Environmental Express	AutoBlock Fill - A Safe and Affordable Way to Automate Metals Digestion	Thur.	12:30 PM	DemoZone 2, Booth #2342
HORIBA Instruments Inc.	Nanoparticle Tracking: Fluorescence With 3 Degrees of Freedom	Thur.	1:00 PM	DemoZone 1, Booth #2142
Spectrolight, Inc.	A New Wavelength Tunable Device for Imaging and Microscopy	Thur.	1:30 PM	DemoZone 2, Booth #2342
HORIBA Scientific	From Water to Wine: The Power of Fluorescence Molecular Fingerprinting	Thur.	2:00 PM	DemoZone 1, Booth #2142
Cole-Parmer	New Spectrophotometers from Jenway	Thur.	2:30 PM	DemoZone 2, Booth #2342
CEM Corporation	Simple Extraction for Liquid and Gas Chromatography Sample Preparation	Thur.	3:00 PM	DemoZone 1, Booth #2142

CONFEREE NETWORKING SESSIONS

Conferee Networking Sessions

These 90-minute sessions provide a unique networking opportunity for attendees to meet with other professionals in an informal setting.

These sessions will cover topics related to sciences such as pharmaceutical, environmental, food, biomedical, bioanalytical and more.

Conferee Networking sessions begin on Monday and run through Thursday afternoon and are open to all conferees at no extra charge.

February 26

10:30 AM - 12:00 PM

Advances in the Detection and Determination of Pathogenic Species in Waste Water

Detection Techniques for Chemical Contaminants and Pesticides in Food and Pharmaceutical Raw Material

Getting the Most of Your Pittcon Experience

Medical Writing

Mobile Phase Selection in LC-MS Analysis

2:00 PM - 3:30 PM

Cannabis Testing Forum: New Opportunities for Enhancing Quality and Expanding Research

Challenges and Advances in the Characterization of Antibody Drug Conjugates

Core Scientific Facilities: Challenges and Opportunities

Expediting Method Development in Pharma

The New Global Directives on Elemental Impurities in Pharmaceutical Materials: Practical Implementation Strategies

February 27

10:30 AM - 12:00 PM

Addressing Challenges in Chiral Separations

Automation in the Pharmaceutical Research and Development Laboratory Networking Session

Choosing the Best Laboratory Improvement Project

Non-invasive Biomedical Analysis – How Can Innovative Instrumentation Promote Biomedical Research and Medical Applications?

Student-Faculty-Industry Networking: Getting Students Prepared for their Careers

February 28

10:30 AM - 12:00 PM

Analytical Methodology to Improve Study of the Nano-Bio Interface

Continuous Flow & Discrete Analyzer User Groups

LC-MS and Matrix Effect

National Science Foundation (NSF) Division of Chemistry Programs and Funding Opportunities

Sharing Science to the Non-Scientist

2:00 PM - 3:30 PM

Challenges in Managing Analytical Instruments in an Academic Environment

Hot Topics and Adoption of GCxGC (Comprehensive GC)

ICP-MS and Chromatography for Metals Speciation

Managing a Successful Graduate Experience

Using Social Media to Reach the Scientific Community

March 1

10:30 AM - 12:00 PM

Analytical Challenges in Extractables and Leachables Analysis

Biosensor for Biomedical Applications

Challenges of the Fentanyl Epidemic

Quality in the Cannabis Industry

Safety in the Laboratory

2:00 PM - 3:30 PM

Advances in Thermal Analysis Techniques and Methodology

ISO and NIST Requirements for Volume Verification, Calibration and Calibration of Automated Liquid Handling and Pipetting Systems

Nanomaterial Characterization

Thick and Thin Films Characterization Update on Standard Methods for the Examination of Water and Wastewater

Update on Standard Methods for the Examination of Water and Wastewater

GENERAL INFORMATION

Child Care on Site at Camp Pittcon

High quality, convenient child care will be available at the Orange County Convention Center in the West Building during Pittcon. We will provide a subsidized child care program that will utilize the expertise of a nationally known child care organization.

February 25: 1:00 PM to 5:30 PM

February 26 to March 1: 7:30 AM to 5:30 PM

Advance registration by

February 1, 2018

(minimum 3 hours)

Visa and Mastercard accepted.

Employment Bureau

Employment Bureau is a complimentary job exchange service provided to all conferees or exhibitors, featuring:

- On-site face-to-face interviews with candidates at employer's request
- Searchable web-based database for candidates and employers
- Two-week preview of candidate profiles for employers* (fee based)
- Wide range of positions in laboratory sciences, technical sales and management

Free online registration for the Employment Bureau (pittcon.org/employment) begins in January, 2018 and remains open during conference week.

Special Needs

If you need a wheelchair accessible vehicle to transport you from your hotel to/from the convention center, please call 866-767-3305 to schedule a pickup. Reserve scooter and wheelchair rentals through Scootaround - 888-441-7575 or <https://locations.scootaround.com/rentals/o/occc/>.

Special Social Activities

- Dining options, activities, Pub Pittcon
- Exclusive event at Universal Orlando

Ticketed events can be purchased with Registration. See pittcon.org for more information

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