



**19th International Diffuse Reflectance Conference
July 29 – August 2, 2018
Chambersburg, PA**



IDRC 2018 Program Schedule

Update: July 25, 2018

| Saturday, July 28 | | | |
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| 4:00 PM | Registration opens in Laird Hall | | |
| 6:30 PM – 7:30 PM | Pizza dinner in Laird Hall | | |
| Sunday, July 29, Short Courses, Science Center Auditorium | | | |
| 7:00 AM | <i>Continental Breakfast in Dining Hall</i> | | |
| 8:30 – 10:00 AM | Fundamentals of NIR | Jerome Workman | Unity Scientific |
| 10:00 – 10:30 AM | <i>Coffee Break</i> | | |
| 10:30 AM – 12:00 PM | Basic Chemometrics | Benoit Igne | GSK |
| 12:00 – 12:45 PM | <i>Lunch Break - Dining Hall</i> | | |
| 1:00 – 2:30 PM | Process Analytical Technology (PAT) | Rodolfo Romanach | Recinto Universitario de Mayaguez |
| 2:30 – 3:00 PM | <i>Coffee Break</i> | | |
| 3:00 – 4:30 PM | Networking | Pierre Dardenne | AuNIR |
| 5:30 – 6:45 PM | <i>Dinner in Dining Hall</i> | | |
| Sunday Evening, July 29, Science Center Auditorium | | | |
| Welcome and the Birth Award Session | Organizer: | Charles Hurburgh, Benoit Igne | Iowa State University, GSK |
| 7:00 PM | Conference Welcome | Charles Hurburgh | Iowa State University |
| 7:30 PM | About Wilson College | Deborah Austin | Wilson College Chemistry |
| 8:00 PM | About Chambersburg | Janet Pollard | Chambersburg Chamber |
| 8:30 PM | Birth Award | Dan Klevisha | Foss North America |
| | Holistic research of diffusely reflected light in cellulosic materials | Satoru Tsuchikawa | Nagoya University |
| <i>Poster Viewing and Hospitality in Laird Hall. Sponsored by Bruker.</i> | | | |
| Monday Morning July 30, Science Center Auditorium | | | |
| 7:00 AM | <i>Full Breakfast in Dining Hall</i> | | |
| Diffuse R vs Diffuse T; What's the Choice | Organizer: | Charles Hurburgh, Mui Saranwong | Iowa State University, Bruker |
| 8:30 AM | Multipoint NIR spectroscopy for online real-time industrial applications | Sylvie Roussel | Indatech |
| 9:30 AM | Chemometrics and standardization requirements for both transmission and reflection measurements | Jerome Workman | Unity Scientific |
| 10:00 – 10:30 AM | <i>Coffee Break</i> | | |
| 10:30 AM | Hirschfeld Award | Dan Klevisha | Foss North America |
| | Celebrating 20th Anniversary of NIR Spectroscopy at University of Innsbruck (Austria): Contributions to material-, bio-, medicinal plant- and food analysis | Christian Huck | University of Innsbruck |
| 11:30 AM | | | |
| 12:00 – 1:30 PM | <i>Lunch - Dining Hall</i> | | |
| Monday Afternoon, July 30, Laird Hall | | | |
| 2:00 – 3:30 PM | Poster Session | Authors Present | Judges review posters |
| 4:00 PM | Predict Your Own Time (PYOT) practice | Dave Ryan | Meet in the Lenfest Lobby |

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| 5:30 – 6:45 PM | | Dinner in Dining Hall | |
| Monday Evening, July 30, Science Center Auditorium | | | |
| Vendor Showcase | Organizer: | Howard Mark | Mark Electronics |
| 7:00 PM – 9:30 PM | Vendor Presentations | Vendor Representatives | |
| Poster Viewing and Hospitality in Laird Hall. Sponsored by The Consultants. | | | |
| Tuesday Morning, July 31, Science Center Auditorium | | | |
| 7:00 AM | <i>Full Breakfast in Dining Hall</i> | | |
| Solving Problems in Industrial Networks | Organizer: | David Honigs | Perten Instruments, Inc. |
| 8:30 AM | Maintaining Control in Quality Control: Problem Solving Common Mistakes and Misconceptions in Food Manufacturing NIR Networks | Carly Isaak | Perten Instruments Canada |
| 9:00 AM | Balancing a Regulatory and Direct Service Network | Cathy Brenner | AMS – USDA |
| 9:30 AM | When Doing It The Right Way Doesn't Work | F. E. Barton, D. E. Akin and J.A. de Haseth | LLS. LLC and LLS Instruments, Inc. Athens, GA |
| 10:00 – 10:30 AM | <i>Coffee Break</i> | | |
| 10:30 AM | Establishing a NIR Center of Excellence: A Solution for Successful Management of Multiple Instruments and Programs | Anitra Payne | NIR Center of Excellence and Plant Lab Support, Land O Lakes |
| 11:00 AM | Calibration Practices Beyond 50 Samples | David Honigs | Perten Instruments USA |
| 11:30 AM | ICNIRS 2019 | Woody Barton | Light-Light Solutions |
| | Discussion and Interaction with Speakers | | |
| 12:00 – 1:30 PM | | Lunch - Dining Hall | |
| Tuesday Afternoon, July 31, Science Center Auditorium | | | |
| 2:00 – 3:00 PM | On-site Software Shootout | Benoit Igne | GlaxoSmithKline |
| 4:00 PM | PYOT Competition | Dave Ryan | Meet in the Lenfest Lobby |
| 5:30 – 6:45 PM | | Dinner in Dining Hall | |
| Tuesday Evening, July 31, Science Center Auditorium | | | |
| 7:00 PM – 8:30 PM | Advance Software Shootout Presentations | Benoit Igne | GlaxoSmithKline |
| As needed – 9:30 PM | Discussion of Data Standards and Calibration Guidelines | | |
| Poster Viewing and Hospitality in Laird Hall. Sponsored by Unity Scientific | | | |
| Wednesday Morning, August 1, Science Center Auditorium | | | |
| 7:00 AM | <i>Full Breakfast in Dining Hall</i> | | |
| Leading Edge – Young Scientists and Student Research | Organizer: | Nanning Cao | Ardent Mills |
| 8:00 AM | Insights into the total antioxidant capacities of different cultivars of gluten-free grains using benchtop and handheld NIR spectroscopy | Verena Wiedemair | University of Innsbruck, Austria |
| 8:30 AM | Prediction of bean plants pathologies, and geographical origin by using NIRS and chemometrics | Jordi Cruz | Salesian University, Spain |
| 9:00 AM | Accurate and reproducible spectra of diluted solutions | Dusan Kojic | Keio University, Japan |
| 9:30 AM | Improving On-line Monitoring of Tablet Coating Process with Terahertz Pulsed Imaging Based Near-Infrared Coating Thickness Models | Shikhar Mohan | Duquesne University, US |
| 10:00 – 10:30 AM | <i>Coffee Break</i> | | |
| 10:30 AM | Using hyperspectral imaging for prediction of whole cocoa bean composition | Nicola Caporaso | University of Nottingham, UK |

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| 11:00 AM | Use of a NIR mini spectrometer for polyamides discrimination on a production unit by PLS-DA | Perrine Hebert | Arkema |
| 11:30 AM | Orchard vis/NIR scanning of apples: Moving to non-destructive determination of fruit ripening and quality parameters | Konni Biegert | Kompetenzzentrum Obstbau-Bodensee, Germany |
| 12:00 – 1:30 PM | | | |
| Lunch Break - Dining Hall | | | |
| Wednesday Afternoon, August 1, Science Center | | | |
| 1:30 PM – 3:30 PM | CNIRS Board Meeting | Benoit Igne | GlaxoSmithKline |
| Wednesday Evening, August 1, Dining Hall | | | |
| Banquet and Awards | | | |
| 6:00 PM | Hospitality in Lobby | | |
| 6:45 PM | Dinner | Wine sponsored by CNIRS | |
| | The Making of a Consultant | Dr. Emil Ciurczak | Doramaxx Consulting |
| | Program and Awards | Benoit Igne | GlaxoSmithKline |
| Poster Viewing and Hospitality in Laird Hall | | | |
| Thursday Morning, August 2, Science Center Auditorium | | | |
| 7:00 AM | <i>Full Breakfast in Dining Hall</i> | | |
| Hyperspectral Imaging and Remote Sensing | Organizer | Richard Zacaroli | Commercial Hyperspectral Products, Corning, Inc., Sacramento, CA |
| 8:00 AM | Bringing Hyperspectral Imaging into the Mainstream | Richard Zacaroli | Commercial Hyperspectral Products, Corning, Inc., Sacramento, CA |
| 8:30 AM | Examining Water Stress in a Vineyard Using Hyperspectral Imagery Collected from a UAV | Sean Hurley | California Polytechnic Institute, San Luis Obispo, CA |
| 9:00 AM | Hyperspectral Imaging Cubesat Initiative | Abraham Matthew | Orbital Sidekick Inc. (OSI), San Francisco, CA |
| 9:30 AM | Airbus Zephyr High Altitude Pseudo-Satellite (HAPS) UAS for Remote Sensing Applications | Tracey Goetz | Zephyr UAS Programs, Airbus Defense and Space Inc., Herndon, VA |
| 10:00 – 10:30 AM | | | |
| <i>Coffee Break, Posters must be removed from Laird by 10:30</i> | | | |
| 10:30 AM | A Compact Visible to Extended-SWIR Hyperspectral Sensor for Unmanned Aircraft Systems (UAS) | Bridget Tannian | Spectral Sciences, Inc., Bedford, MA |
| 11:00 AM | The Multivariate Optical Element Platform, a Promising Technology for Next Generation Hyperspectral Imaging | Ryan Priore | CIRTEMO LLC, Columbia, SC |
| 11:30 AM | Discussion, Closing, ICNIRS 2019, IDRC 2020 | Charles Hurburgh | Iowa State University |
| 12:00 – 1:30 PM | | | |
| Lunch - Dining Hall | | | |
| by 2:00 PM | | | |
| Check out and Key Return | | | |