



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



**IDRC 2018 Program Schedule**

**Update: July 25, 2018**

<b>Saturday, July 28</b>			
4:00 PM	Registration opens in Laird Hall		
6:30 PM – 7:30 PM	Pizza dinner in Laird Hall		
<b>Sunday, July 29, Short Courses, Science Center Auditorium</b>			
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
<b>5:30 – 6:45 PM</b>	<b><i>Dinner in Dining Hall</i></b>		
<b>Sunday Evening, July 29, Science Center Auditorium</b>			
<b>Welcome and the Birth Award Session</b>	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
<b><i>Poster Viewing and Hospitality in Laird Hall. Sponsored by Bruker.</i></b>			
<b>Monday Morning July 30, Science Center Auditorium</b>			
7:00 AM	<i>Full Breakfast in Dining Hall</i>		
<b>Diffuse R vs Diffuse T; What's the Choice</b>	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			
<b>12:00 – 1:30 PM</b>	<b><i>Lunch - Dining Hall</i></b>		
<b>Monday Afternoon, July 30, Laird Hall</b>			
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

<b>5:30 – 6:45 PM</b>		<b>Dinner in Dining Hall</b>	
<b>Monday Evening, July 30, Science Center Auditorium</b>			
<b>Vendor Showcase</b> 7:00 PM – 9:30 PM	Organizer: Vendor Presentations	Howard Mark Vendor Representatives	Mark Electronics
<b>Poster Viewing and Hospitality in Laird Hall. Sponsored by The Consultants.</b>			
<b>Tuesday Morning, July 31, Science Center Auditorium</b>			
<i>7:00 AM</i>	<i>Full Breakfast in Dining Hall</i>		
<b>Solving Problems in Industrial Networks</b>	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
<i>10:00 – 10:30 AM</i>	<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		
<b>12:00 – 1:30 PM</b>		<b>Lunch - Dining Hall</b>	
<b>Tuesday Afternoon, July 31, Science Center Auditorium</b>			
2:00 – 3:00 PM	On-site Software Shootout	Benoit Igne	GlaxoSmithKline
4:00 PM	PYOT Competition	Dave Ryan	Meet in the Lenfest Lobby
<b>5:30 – 6:45 PM</b>		<b>Dinner in Dining Hall</b>	
<b>Tuesday Evening, July 31, Science Center Auditorium</b>			
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		
<b>Poster Viewing and Hospitality in Laird Hall. Sponsored by Unity Scientific</b>			
<b>Wednesday Morning, August 1, Science Center Auditorium</b>			
<i>7:00 AM</i>	<i>Full Breakfast in Dining Hall</i>		
<b>Leading Edge – Young Scientists and Student Research</b>	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
<i>10:00 – 10:30 AM</i>	<i>Coffee Break</i>		
10:30 AM	Using hyperspectral imaging for prediction of whole cocoa bean composition	Nicola Caporaso	University of Nottingham, UK

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
<b>12:00 – 1:30 PM</b>			
<b>Lunch Break - Dining Hall</b>			
<b>Wednesday Afternoon, August 1, Science Center</b>			
1:30 PM – 3:30 PM	CNIRS Board Meeting	Benoit Igne	GlaxoSmithKline
<b>Wednesday Evening, August 1, Dining Hall</b>			
<b>Banquet and Awards</b>			
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
<b>Poster Viewing and Hospitality in Laird Hall</b>			
<b>Thursday Morning, August 2, Science Center Auditorium</b>			
7:00 AM	<i>Full Breakfast in Dining Hall</i>		
<b>Hyperspectral Imaging and Remote Sensing</b>	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
<b>10:00 – 10:30 AM</b>			
<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
<b>12:00 – 1:30 PM</b>			
<b>Lunch - Dining Hall</b>			
by 2:00 PM			
Check out and Key Return			