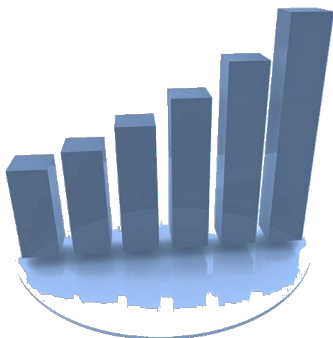




33rd

ANNUAL CONFERENCE



IUPUI University Tower
Indianapolis, IN
March 18-19, 2019

ALTERYX EVERYTHING

Break the language barriers in data science and analytics



Download the free trial today alteryx.com/trial

A note from INAIR President: Brooke Moreland

Thank you so much for attending the 2019 Indiana Association for Institutional Research Annual Conference, the 33rd since its founding. We continue to draw substantial attendees year after year and we continue to deliver quality presentations and papers to our membership. Thank you, because without your attendance and support, INAIR could not be the association that you all have grown it into. Speaking of quality presentations, we have some fantastic sessions lined up this year.

A big thank you to Robbie Janik, your current Vice President and 2019 Conference Planning Chair, for his hard work on this year's conference. Another thanks to Norma Fewell and Sharon Wavle, our Conference Planning Committee, who assisted Robbie from the outset.



Some housekeeping:

- All INAIR materials submitted are available on the INAIR website.
- Our keynote speaker is Dr. Sue Ellspermann who serves as President of Ivy Tech. She speaks at 5:00 pm on Monday. Don't miss it!
- Our Business Meeting will be held immediately after the key note speaker at 5:45 pm on Monday. We have wonderful door prizes! We elect a new slate of officers and will conclude with our award ceremony.

I want to send a special shout out to our Executive Board, who have been a constant source of communication and a sounding board for me throughout the 18-19 INAIR year, and who have helped support Robbie and the Conference Planning Committee in performing their conference planning magic. Ron Severtis, immediate past President: what a help he's been to INAIR for all his years of dedication and service to the organization. I appreciate his words of advice and encouragement at times when I have needed it the most while leading.

Last but not least, please thank our conference sponsors. It is with their assistance and generosity that keeps INAIR about to execute such a great annual conference. Please stop by, say hi, and chat about their products. Even if you're not buying, it does not hurt learning a bit more about what so many of our offices use.

Thank you to all of our presenters! Continue to share your insight, your expertise, your best practices, and your results. We appreciate you!

Best,
Brooke Moreland
Assistant Director, IUPUI 21st Century Scholars
President, Indiana Association for Institutional Research (INAIR)
Indiana University Purdue University Indianapolis
bromorel@iupui.edu

A note from VP/Conference Planning Chair: Robbie Janik

Hello INAIR Colleagues!

Welcome to the 33rd annual INAIR conference! I am extremely excited for what we have to offer you this year. IUPUI Event & Conference Services have done a superb job of assisting in getting the 2019 conference off the ground. And thanks to you the members, we have a plethora of high-quality presentations from many different Institutions around the state. I think it will be difficult deciding which presentation to attend as they all look great! At the beginning of this endeavor of planning the conference, my goal was to facilitate a comfortable environment for the open exchange of ideas and best practices in Institutional Research and related fields. Through the assistance of many people, I think I have done the best I can at achieving this objective.



I owe a great deal of thanks to the conference committee of Sharon Wavle and Norma Fewell for their constant support, encouragement, and hard work. Without them I would have been reduced to crying in the fetal position in the corner of my office months ago. Executive Board Members Brian Matve, Bridgett Milner, and Ken Pattillo have handled the web administration, membership responsibilities, and finances of the conference respectively with great expertise and professionalism. I also owe a debt of gratitude to INAIR President Brooke Moreland who set the bar high with her planning of the previous conference as well as her leadership of the organization this past year. I have especially enjoyed her implementation of the Inside INAIR series which I hope to continue. Finally, a big thank you to Immediate (soon to be “Long Gone”) Past President Ron Severtis who has talked me off the ledge more than once and reassured me that I was actually doing an ok job.

My hope is that everyone will be able to bring something back to their offices whether it be new ideas, different perspectives of tackling issues, or simply a rejuvenated attitude toward coming into work. It does not matter if you are a new member or a seasoned veteran of INAIR, we can always learn something new from each other. I encourage all to take part in Bridgett Milner’s awesome new program either as a mentor or mentee. Even if you did not formally sign up, reach out to a new member and ask how they’re doing or talk to a presenter after their session and get some tips. Personally, I have always found the hardest part of networking is the initial introduction to someone new. For new members, simply compliment someone on their work or presentation, IR professionals love that!

Thank you all again for allowing me to serve and putting up with my many emails over the past couple of months. If there is anything we can do to make this a better conference, please let us know. Have a great conference!

Sincerely,

Robbie Janik

Assistant Director, Institutional Effectiveness & Survey Research - IUPUI

Vice President/Conference Chair, Indiana Association for Institutional Research (INAIR)

rjanikii@iupui.edu

In appreciation for their generosity,
INAIR would like to recognize and thank our Sponsors:

Platinum Sponsors



Tableau helps people transform data into actionable insights. Explore with limitless visual analytics. Build dashboards and perform ad hoc analyses in just a few clicks. Share your work with anyone and make an impact on your business. From global enterprises to early-stage startups and small businesses, people everywhere use Tableau to see and understand their data.



Revolutionizing business through data science and analytics, Alteryx empowers everyone in an organization to experience the thrill of getting to the answer faster. The modern, end-to-end Alteryx analytics platform enables analysts and data scientists alike to discover, share and prep data, perform analysis – statistical, predictive, prescriptive and spatial – and deploy and manage analytic models. Thousands of people in enterprises all over the world rely on Alteryx daily to deliver game-changing results.

Lunch Sponsor



Completion With a Purpose®

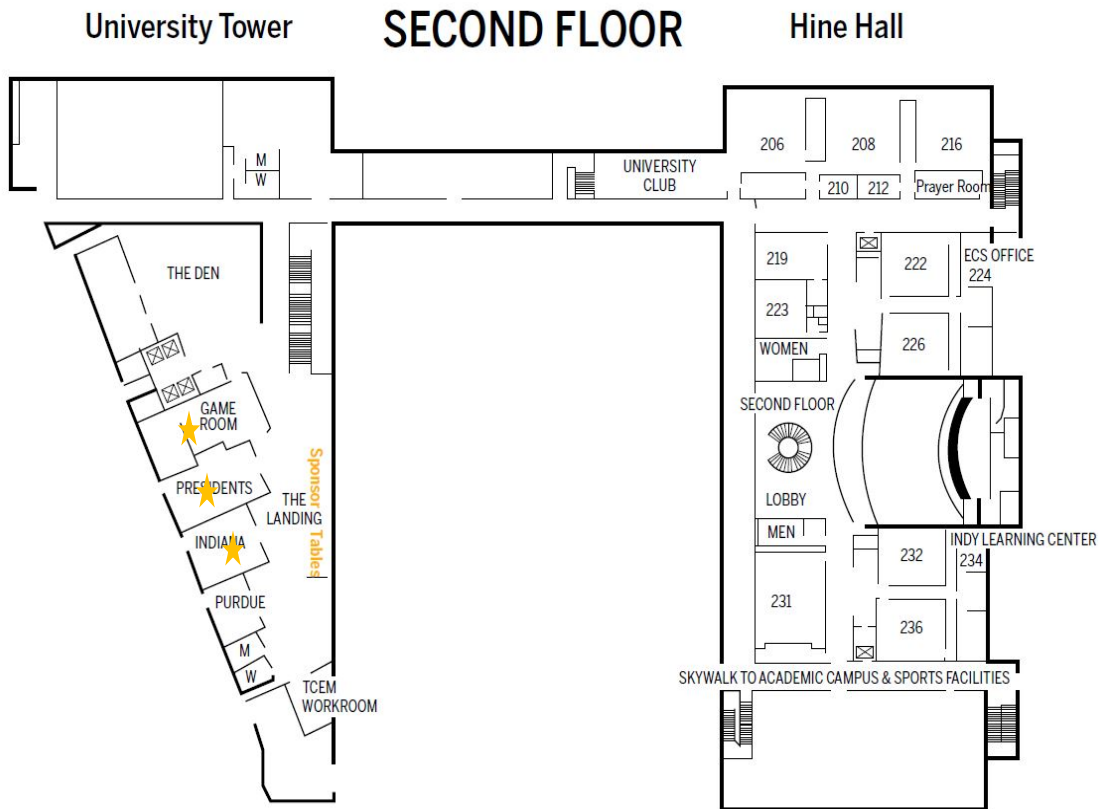
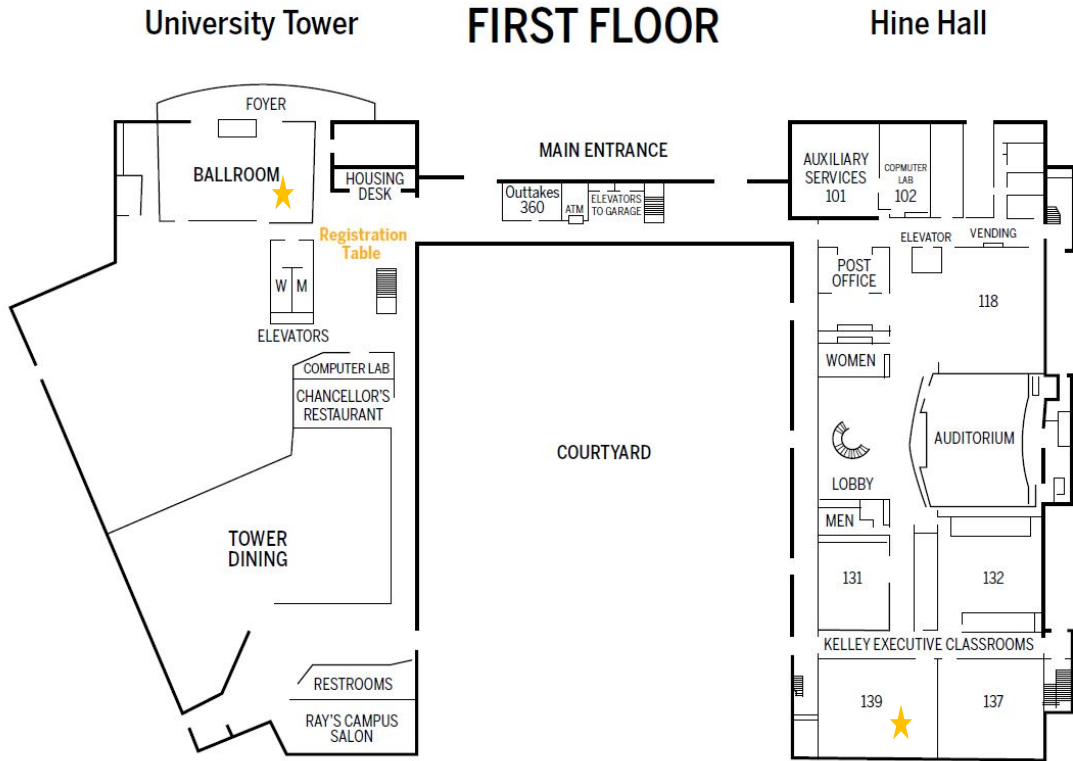
Bronze Sponsor



Additional Sponsor



University Tower/Hine Hall Floorplan



Schedule at a Glance

Monday March 18 th		
7:30 am – 4:30 pm	Tower Lobby	Conference Registration
8:00 am – 4:30 pm	The Landing	2019 INAIR Sponsors and Vendors
8:00 am – 11:00 am	The Landing & Hine Rm 139	Continental Breakfast/Coffee and Beverage Service (<i>Feel free to use the Presidents Room for Networking</i>)
Free Pre-Conference Activities		
8:00 am – 8:45 am	Purdue Room	Indiana Commission for Higher Education Initiative and Policy Update Sean Tierney & Alison Partee, ICHE
9:00 am – 11:00 am	Indiana Room	Newcomer's Workshop (<i>Attendees: please bring a laptop</i>) Nandini Ramaswamy, Butler University
9:00 am – 10:00 am	Kelley Rm 139 (Hine Hall)	What's New in Tableau: Enhancements and Best Practices Steve Cohen, Rick Evans & Aaron Ross, Tableau
10:15 am – 11:15 am	Kelley Rm 139 (Hine Hall)	Reach your Analytic Potential: How Self-Service Analytics gives you the Leading Edge in Higher Education Digan Parikh, Phil Reinhart & Zach Brasher, Alteryx
Conference Begins		
11:30 am – 12:45 pm	Ballroom	Lunch Welcome and Opening Remarks
Concurrent Session One		
1:00 pm – 1:45 pm	Presidents Room	A Study on Student Academic Performance in Online and Face-to-Face Courses Timothy Chow, Rose-Hulman Institute of Technology
	Indiana Room	One Ask: How a Centralized Database Can Reduce Requests to Faculty Members Alee L. Gunderson, Purdue University & Stacey Becker, Digital Measures
	Purdue Room	DIY: Providing a Case Management Tool for Advisors Linda Ferguson, Indiana State University
	Kelley Rm 139 (Hine Hall)	Aligning Program Offerings with Labor Market Needs: Using Emsi to Identify Opportunities and Challenges Ben Ollen & Todd Schmitz, Indiana University
Concurrent Session Two		
2:00 pm – 2:45 pm	Presidents Room	Blast Off: Increasing Retention at IUPUI Through 2 Signature Co-Curricular Programs Sonia Ninon, IUPUI
	Indiana Room	Higher Education Hunger Games: External Data for Understanding Trends Bridgett Milner & Doug Anderson, Indiana University
	Purdue Room	An Overview of Data Reporting and Analysis with the IU School of Medicine Nathan Bohlmann, Indiana University
	Kelley Rm 139 (Hine Hall)	Using Cross-Departmental Collaboration to Develop an Online Observation-Data Collection Tool* Karen Hum, Purdue University
Poster Session/Networking/Vendors		
2:45 pm – 3:30 pm	The Landing	Dessert/Snack Break
		Using IR to Enhance Admissions Efforts Jordan Mays, Oakland City University
		A Look in the Mirror: Assessment of the Internal IR Function Tony Parandi, Indiana Wesleyan University

Concurrent Session Three		
3:30 pm – 4:15 pm	Presidents Room	HIP to Good Data: IR's Role in Scaling High Impact Practices Steve Graunke, Michele Hansen & Tom Hahn, IUPUI
	Indiana Room	Pathways to Graduation Sabrina Tanner & David Robledo, Purdue University
	Purdue Room	Analytics Associates: Leveraging Analytics Capacity Across the Institution* Tony Parandi & Don Sprowl, Indiana Wesleyan University
4:30 pm	Ballroom	Reception/Hors d'oeuvres/Cash Bar
5:00 pm – 5:45 pm	Ballroom	CONFERENCE KEYNOTE Dr. Sue Ellspermann, President, Ivy Tech Community College
5:45 pm – 6:30 pm	Ballroom	Business Meeting, Award Ceremony, Door Prizes

Tuesday March 19th		
7:30 am – 9:30 am	Tower Lobby	Conference Registration
8:00 am – 11:30 am	The Landing	2019 INAIR Sponsors and Vendors
8:00 am – 9:00 am	The Landing	Hot Breakfast Buffet (<i>Use the Breakout Rooms on the Landing for Seating and Networking</i>)
Concurrent Session Four		
9:15 am – 10:00 am	Presidents Room	Institutional Research and Library Collaboration to Assess Information Literacy Sara Lowe & Steve Graunke, IUPUI
	Indiana Room	Excel, We Love You, but We've Found Someone New Chelsie Deatrick & Sharon Wavle, Indiana University Online
	Purdue Room	The Daily Grind: Weekly Reports Updated Daily? Lindsay Boersma, Catherine Madinger & Chad Butler, Indiana University
Concurrent Session Five		
10:15 am – 11:00 am	Presidents Room	Impact of On-Campus Employment on Student Retention: An Introduction to Drawing Causal Inferences using Propensity Score Analysis Wendy Lin, IUPUI
	Indiana Room	Applications of Graph Analytics and Association Rule Mining to Curriculum and Student Enrollments to Enhance Progression to Degree* Stefano Fiorini, Mrunal Chaudhary, Ayesha Bhimdiwala & Mike Sauer, Indiana University
	Purdue Room	ICHE Report Overview and A Dive into Equity Data Gina Deom & Alison Partee, ICHE
Conference Ends		
11:00 am – 11:30 am	The Landing	Good Byes and So Longs
11:30 am – 1:00 pm	Indiana Room	Executive Board Meeting (CLOSED)

**Indicates best paper submission*
Schedule is subject to change

WIFI: IU Guest (no password required)
Daily parking vouchers available at the registration table

Monday, March 18

Conference Registration 7:30 am – 4:30 pm, Tower Lobby (1st Floor)

Sponsors and Vendors 8:00 am – 4:30 pm, The Landing (2nd Floor)

Pre-Conference Workshops

8:00 am – 8:45 am, Purdue Room (2nd Floor)

Indiana Commission for Higher Education Initiative and Policy Update

Sean Tierney & Alison Partee, ICHE

This topic will provide an update on statewide initiatives and policies supporting the Indiana Commission for Higher Education's strategic plan *Reaching Higher, Delivering Value*. A specific focus on data metrics behind current state initiatives will be provided. The session will also highlight collaborative work among state agencies, postsecondary institutions, and employers to support education/workforce alignment. Updates on data sharing and linking to workforce data through Indiana's Management Performance Hub will be also be provided. We will also go through some of the online tools and information that CHE provides, with a focus on identifying ways to make data and analysis more useful to INAIR users and the general public. It will also cover relevant updates on state data policy and initiatives, including – if any – legislative developments.

9:00 am – 11:00 am, Indiana Room (2nd Floor)

Newcomer's Workshop (Attendees: please bring a laptop)

Nandini Ramaswamy, Butler University

Those new to the IR field are encouraged to attend this workshop. Attendees will participate in an informal discussion about institutional research and will learn general concepts, identify resources, discuss practical strategies and be oriented to the functions of institutional research.

Discussion topics will include:

1. What is Institutional Research?
2. What do Institutional Research Offices do on a routine day? (Facilitate discussion among attendees on each of their offices duties)
3. Introduce topics of relevance that IR offices deal with (IPEDS, CDS, others surveys, College Navigator etc)
4. How to use data for their research or daily requests for analysis from their offices

9:00 am – 10:00 am, Kelley Room 139 (Hine Hall)

What's New in Tableau: Enhancements and Best Practices

Steve Cohen, Rick Evans & Aaron Ross, Tableau

Tableau will be providing an overview of Tableau and some of the enhancements and new features over the last year. This session will also touch on best practices for dashboard design and driving users to view your visualization.

Pre-Conference Workshops (continued)

10:15 am – 11:15 am, Kelley Room 139 (Hine Hall)

Reach your Analytic Potential: How Self-Service Analytics gives you the Leading Edge in Higher Education

Digan Parikh, Phil Reinhart & Zach Brasher, Alteryx

Modern institutions of higher education face many disruptive challenges in order to attract and retain the best students and remain competitive. The data needed to meet these challenges is often spread across multiple departments, academic systems, and local files. Let's face it, Excel just isn't cut out to solve this problem, let alone provide deeper advanced insights and forecasts for your data-driven leaders.

In this workshop, we'll demonstrate how:

- Modern self-service analytics can remove the Excel bottleneck.
- Analysts can combine, share and analyze institution-wide data to produce repeatable and reliable results that win back your day.
- Preparing and blending data is just the start. We'll incorporate student demographics, geospatial catchment areas and show you just how easy it is to get started with advanced analytics to predict student intake volumes for the upcoming academic year – all without writing a single line of code!
- Self-service analytics can be deployed directly into tools like Tableau or the Alteryx Gallery. No intermediate steps with IT. No cutting-and-pasting. Just smarter decisions for students and your institution in a fraction of the time.

Opening Remarks and Welcome Lunch – Sponsored by Strada Education Network

11:30 am – 12:45 pm, Ballroom (1st Floor)

Concurrent Session One: 1:00 pm – 1:45 pm, The Landing/Hine Hall

A Study on Student Academic Performance in Online and Face-to-Face Courses

Timothy Chow, Rose-Hulman Institute of Technology – Presidents Room

With the advancement of computer and information technology, opportunities for online learning and online class delivery are increasing at all types and sectors of higher education institutions. Considering the changes in how instruction is designed and delivered with online learning, it is of interest to higher education institutions to examine and ensure student learning and success are not being hampered by the changes in the class delivery process. This study examines student academic performance through final course grades to determine if any significant difference exists between face-to-face and online teaching/delivery modes. The background of the study will be shared and initial findings in terms of comparing grade distributions and average GPAs will be discussed. The preliminary results do not suggest a consistent trend of performance differences across all analyses between the two teaching/delivery modes. Time will be provided for audience participation to share experience and suggestions for studying this topic.

One Ask: How a Centralized Database Can Reduce Requests to Faculty Members

Alee L. Gunderson, Purdue University & Stacey Becker, Digital Measures - Indiana Room

Learn how Purdue University has leveraged information about our faculty members to report on annual activities and to accrediting bodies. Those who attend the demonstration will learn more about:

- Using information you gather for one purpose for other purposes as well
- Avoiding the problem of constant “asks” of faculty
- Wondering if you have the full set of data
- How Purdue’s four colleges have implemented Digital Measures to meet their needs
- Other ways that institutions can and do leverage information that is collected about faculty in a centralized database

DIY: Providing a Case Management Tool for Advisors

Linda Ferguson, Indiana State University – Purdue Room

With limited time and resources, tools are needed to help academic units appropriately direct outreach to students who need it the most. Many times this is accomplished by purchasing and implementing early warning systems but in-house solutions can also be developed. Indiana State University recently added a Student Risk module to its Blue Reports information gateway. The reports and graphs provide administrators insight into the magnitude of risk factors by term and type, but most importantly, drill-to-detail features and individual student summary reports can be used by advisors as case management tools. We will discuss the implementation process from risk factor definition through roll out to campus.

Aligning Program Offerings with Labor Market Needs: Using Emsi to Identify Opportunities and Challenges

Ben Ollen & Todd Schmitz, Indiana University – Kelley Room 139 (Hine Hall)

With this presentation we will share how Emsi’s labor market analytics tool can be used to help bridge the gap between an institution’s current program offerings and the impending demands of its local labor market. More specifically, we will: address the need for higher education institutions to leverage labor market data, explain why our office uses Emsi to gather and analyze this data, give a brief overview of Emsi’s labor market analytics tool, and deliver simulated demonstrations based on the use cases we have experienced. Additionally, since we are aware that not all institutions have access to Emsi’s products, we will briefly introduce some publicly available data sources. Given the use cases we will examine, our content will be most relevant for practitioners from smaller institutions and regional campuses.

Concurrent Session Two: 2:00pm – 2:45pm, The Landing/Hine Hall

Blast Off: Increasing Retention at IUPUI Through 2 Signature Co-Curricular Programs

Sonia Ninon, IUPUI – Presidents Room

U.S. colleges and universities have to grapple with the changing landscape in Higher Education. The demands of students attending these institutions coupled with the growing call for accountability seem to have hit many college campuses all at the same time. IUPUI is no exception. IUPUI's leadership is continuously looking for ways to increase students' sense of belonging which will lead to higher retention and graduation rates. The Division of Student Affairs (DoSA) at IUPUI is comprised of nine units and offers countless co-curricular programs and services. Staff members from two DoSA units, Campus Center and Student Experiences and Educational Partnership and Student Success, organize JagBlast and Weeks of Welcome, two signature programs held in the fall semester. Ninon was interested in examining the relationship between participation in those two signature programs and student retention. Results of the analysis indicate there is a positive relationship between engagement in those co-curricular programs and the fall-to-spring retention rates among students who engaged in those activities

Higher Education Hunger Games: External Data for Understanding Trends

Bridgett Milner & Doug Anderson, Indiana University – Indiana Room

To be successful in institutional research, we must understand the higher education landscape and marketplace. We all work to support our own institutions in the never-ending quest for success and prestige. We compete for students, sometimes in a brutal competition where the stakes are high and the most desirable students are scarce. Participants will learn about our experiences in determining IU Bloomington's position in the higher education landscape. We will share the external data sources we use, and how we use them. Participants will also have a chance to share their own best practices.

An Overview of Data Reporting and Analysis with the IU School of Medicine

Nathan Bohlmann, Indiana University – Purdue Room

The purpose of this session is to share insights on building a business intelligence environment. The session will describe how the Indiana University School of Medicine transformed its data environment from having disjointed, unreliable reporting to a school-wide, cross mission asset that provides reliable, trusted data and information. The discussion will provide insights on the necessary elements and approach involved in building the environment that by necessity, is semi-independent from the university's enterprise data environment. In addition, the presentation will provide information on the various reports and dashboards available within the school and the technologies that enables these solutions.

Using Cross-Departmental Collaboration to Develop an Online Observation-Data Collection Tool

Karen Hum, Purdue University – Kelley Room 139 (Hine Hall)

The purpose of developing this tool was to improve and expand observation-data collection capabilities and outcomes, while providing a unique opportunity for cross-departmental collaboration. The PLOT data-collection system has been shown to be an effective and efficient tool for compiling facility/space usage observations with minimal end-user training requirements. The system enables multiple staff members to simultaneously collect consistent data in a reduced amount of time, while alleviating concerns regarding missing or duplicate data.

Poster Session and Dessert Break 2:45 pm – 3:30 pm, The Landing

Using IR to Enhance Admissions Efforts

Jordan Mays, Oakland City University

To provide additional insights to small not-for-profit institutions that may be interested in ways to enhance collaboration with admissions to increase student enrollment.

A Look in the Mirror: Assessment of the Internal IR Function

Tony Parandi, Indiana Wesleyan University

This poster is a summary of a decade's worth of ongoing internal assessment of IR practices. Driven by a its mission statement, in 2008 Indiana Wesleyan University's Office of Institutional Research (OIR) began collecting data via daily time logs, customer surveys, and keeping a detailed database of all projects. Over time, the methodology was streamlined, yet the insight from these efforts has successfully enabled IWU's OIR to adapt to the ever-growing and changing needs of the University and external stakeholders.

Concurrent Session Three: 3:30 pm – 4:15 pm, The Landing

HIP to Good Data: IR's Role in Scaling High Impact Practices

Steve Graunke, Michele Hansen & Tom Hahn, IUPUI – Presidents Room

This session will focus on how IR can contribute to scaling HIPs at an institution through leveraging expertise in data collection and assessment. Data collection methods such as tagging specific high impact courses, collecting self-report data, gathering program-level information, validating experiences using a co-curricular record on engagement, and evaluation of program implementation through taxonomies will be discussed. Examples of assessment results using data obtained from each data collection method will also be presented. Discussion will focus on participants own experiences collecting HIP data and understanding strategies that may work in different institutional contexts

Pathways to Graduation

Sabrina Tanner & David Robledo, Purdue University – Indiana Room

The intent of this presentation is to share and describe an effort currently in development at Purdue University's College of Engineering, titled Pathways to Graduation. The purpose of this project is twofold: to identify common paths students take on their way to earning a degree and to gain a clearer understanding of how certain factors affect time – to-degree. Specifically, this data examines students' pathways to graduation as a function of inherent characteristics, student performance, and effort-based attributes as well as socioeconomic and experiential factors. The driving vision behind this effort was to create a dataset and tools for academic leaders and institutional researchers to use for answering questions regarding undergraduate student enrollment as they work through the student pipeline. Understanding these key factors and pathways will be critical in shaping strategies for improving the retention and graduation rates of our students.

Analytics Associates: Leveraging Analytics Capacity Across the Institution

Tony Parandi & Don Sprowl, Indiana Wesleyan University – Purdue Room

The concepts and outcomes of IWU's Analytics Associates are presented. Analytics Associates is a voluntary network of professionals across the institution engaged in various aspects of data analytics work. The networks gathers these analysts into a common conversation about institutional data needs, tools and techniques, best practice, and data protocols. The outcome is a leveraging and multiplying of institutional analytics capacity and quality.

Reception – Hors d’oeuvres and Cash Bar

4:30 pm, Ballroom (1st Floor)

Conference Keynote 5:00 pm – 5:45 pm, Ballroom (1st Floor)

Dr. Sue Ellspermann, President, Ivy Tech Community College



Dr. Sue Ellspermann has more than 30 years of experience in higher education, economic and workforce development, and public service. In January 2018, under Ellspermann’s leadership, Ivy Tech launched its new five-year Strategic Plan, “Our Communities. Your College. Pathways for Student Success and a Stronger Indiana.” The plan’s vision is for Ivy Tech students to earn 50,000 high-quality certifications, certificates, and degrees per year aligned with workforce needs.

The plan aligns with Indiana’s goal to equip 60 percent of the workforce with a high-value, post-secondary degree or credential by 2025. Through achievement of this goal, the College will help increase Hoosier per capita income and support the transformation of the state’s advanced industries economy. The plan development covered 18 months, including a restructure of the College, comprehensive fact

finding conducted internally and externally, including thousands of faculty, staff, students and statewide stakeholders.

In May 2016, she was selected to serve as President of Ivy Tech Community College of Indiana. She is the ninth individual to hold the position and first female president for the college. She replaced Thomas J. Snyder who announced his retirement in September of 2015 after serving as President since 2007. Ellspermann assumed the role of President on July 1, 2016. Prior to officially assuming the role as President, Ellspermann visited all 14 regions and 22 different locations in June of 2016 as President-elect. She convened 52 small groups meeting with an estimated 750+ faculty and staff on a listening tour prior to July 1.

She most recently served as Indiana’s 50th Lieutenant Governor from 2013 until March of 2016. As the vice chair of the Indiana Career Council she led efforts to align Indiana’s education and workforce development system to meet the needs of employers which is her continued focus at Ivy Tech. Her public service began in 2010 when she was elected as the State Representative for District 74.

Ellspermann formerly served as the founding Director of the Center of Applied Research and Economic Development at the University of Southern Indiana and also owned and operated Ellspermann and Associates, Inc, an independent consulting firm licensed in the training and facilitation of Simplex Creative Problem Solving.

Early in her career she spent time with Frito-Lay and Michelin Tire Corporation. Ellspermann holds a Ph.D. and M.S. from the University of Louisville in Industrial Engineering and a B.S. from Purdue University also in Industrial Engineering.

She is married to James Mehling, a former high school principal. She has a blended family of four daughters, three sons-in-law, two grandsons and two granddaughters.

Business Meeting, Awards, and Door Prizes

5:45 pm – 6:30 pm, Ballroom (1st Floor)

Tuesday, March 19

Breakfast Buffet 8:00 am – 9:00 am, The Landing

Concurrent Session Four: 9:15 am – 10:00 am, The Landing

Institutional Research and Library Collaboration to Assess Information Literacy

Sara Lowe & Steve Graunke, IUPUI – Presidents Room

The purpose of this session is to discuss a program to assess information literacy in first - year and senior students, and demonstrate the role institutional research professionals can have in assessing the impact of information literacy interventions. Presenters will discuss project implementation, results, and lessons learned as well as strategies for instituting a similar ground - up assessment project. Although the focus is on information literacy, the methodology could be used to assess most general education competencies (for example, communication, writing, etc).

Excel, We Love You, but We've Found Someone New

Chelsie Deatrick & Sharon Wavle, Indiana University Online – Indiana Room

Working with large data sets from a variety of different data sources can be cumbersome if not impossible. SQL queries that join data from many different tables can get complicated and difficult to thoroughly test and debug. Bringing together the results of SQL queries with existing Excel workbooks can be a difficult manual process. This presentation will introduce attendees to Alteryx, a relatively new data preparation and blending tool. This new product has become an essential component of our analytics toolkit. While we've just gotten started, we've found some really cool things that Alteryx can

do that make us more efficient and, in some cases, help us do things that were challenging (or impossible) to accomplish before in Excel. In this presentation we plan to show you how Alteryx helps us:

- Work with several large spreadsheets without causing Excel to hang up or crash
- Blend data from completely different data sources in one workflow
- Perform vlookups and joins using drag and drop with visual confirmation of results
- Create custom filters and formulas

The Daily Grind: Weekly Reports Updated Daily?

Lindsay Boersma, Catherine Madinger & Chad Butler, Indiana University – Purdue Room

Understanding and reporting on admissions and enrollment throughout the admission cycle and school year can often be a time consuming task. In addition to the vast number of graphs, tables, and other reports that need updating there is the element of frequency of updating. While decision makers might love everything updated daily, such frequency on all reports might not make sense for the staff's time or the situation. In recent years, our office at IU Bloomington has found producing selected reports and metrics at more frequent intervals to be valuable to both leadership and internal Decision-making. By strategically selecting reports and metrics to update daily, we have been able to be more nimble in our internal decision-making and more responsive to leadership needs. Our current approach is still evolving, but we have learned a lot in the process of developing a select few daily reports to supplement our standard weekly reports and we are hoping to share some of our knowledge and examples with you!

Concurrent Session Five: 10:15 am – 11:00 am, The Landing

Impact of On-Campus Employment on Student Retention: An Introduction to Drawing Causal Inferences using Propensity Score Analysis

Wendy Lin, IUPUI – Presidents Room

In the field of Institutional Research (IR), we often times conduct quasi-experimental studies where subjects are not randomly assigned to a treatment group and a control group, thus making it difficult to tease out the effect of selection bias and confounding factors from actual treatment effects. Rosenbaum and Rubin (1983) showed that the propensity score matching method greatly reduces bias in an observational study, which in turn allows casual inferences to be made. The purpose of this proposed session is to share how our office used propensity score matching to determine the impact of on-campus employment on student retention and how they have informed our next steps. We will also share the technical aspects of propensity score analysis using the PSMATCH procedure in SAS.

Applications of Graph Analytics and Association Rule Mining to Curriculum and Student Enrollments to Enhance Progression to Degree

Stefano Fiorini, Mrunal Chaudhary, Ayesha Bhimdiwala & Mike Sauer, Indiana University – Indiana Room

Progression through a curriculum is essential for students pursuing a degree in Higher Education. Efficient and well-supported academic paths result in declines in attrition and increases in graduation rates. Building on curriculum path data and student enrollment data we explain, discuss and show the potential that graph analytics and association rules mining have in evaluating a curriculum's structural complexity, efficiency and other factors affecting a student pathway to graduation. Insights gained will lead to a discussion of potential actionable outcomes, such as opportunities for adjusting and personalizing curriculum paths, or providing students with academic support in critical academic areas and career levels.

ICHE Report Overview and A Dive into Equity Data

Gina Deom & Alison Partee, ICHE – Purdue Room

This session will provide an overview of ICHE's reports, dashboards, and other data resources. Attendees will have an opportunity to provide feedback on existing reports and to make suggestions for new resources that could be provided. A specific focus will be placed on ICHE's inaugural College Equity Report, which provides a closer look at college access, readiness, and completion statistics by student demographics to help inform achievement gap initiatives. ICHE welcomes feedback from IR staff who use data to help university stakeholders identify and support at-risk students.

Conference Ends 11:00 am


Thank you to all of our INAIR members for another great conference! See you next year!

Executive Board Lunch Meeting (closed)

11:30 am – 1:00 pm, Indiana Room

Uncover insights to advance your institution

tableau.com/institutional-research

 tableau

