INAIR
Indiana Association for Institutional Research

32ND
ANNUAL CONFERENCE

A note from INAIR President: Ron Severtis

Thank you so much for attending the 2018 Indiana Association for Institutional Research Annual Conference, the 32nd 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. Some are headed by names we have grown to respect who continue to produce substantive work to advance the fields of data metrics, assessment, policy analysis and reporting. Others feature new and emerging professionals, or even veteran members who said that this year was the year they were going to present their first session. A big thank you to Brooke Moreland, your current Interim Vice President and 2018 Conference Planning Chair, for stepping up into a vacant role and taking on the main task of running this year's conference. Another thanks to Robbie Janik, our Conference Planning Chair, who assisted Brooke from the outset. And thanks to Bridgett Milner who has stepped right into Membership Chair. If you see them all (and I KNOW you will!) please give them a big thank you! Please also welcome our new CHE liaison, Sean Tierney, who is taking over for Stacy Townsley. We look forward to utilizing your experience and knowledge- welcome to the INAIR family!

Speaking of Brooke, she has revived a super mentoring program. Please see her if you are new to the field and want to benefit from having an experienced mentor, or if you are ready to assist a new person as they learn the field.

Some housekeeping:

- All INAIR materials submitted are available on the INAIR website.
- Our keynote speaker is Dr. James (Jay) Gladden who serves as Assistant Vice Chancellor of Undergraduate Education and Dean of University College at IUPUI. He speaks at 5:00pm on Thursday. Don't miss it!
- Our Business Meeting will be held immediately after at 11:30am on Friday. Look at the wonderful studio filled with fabulous prizes! And we elect a new slate of officers. Democracy at its finest!

While I'm in the generous mood of thanking all of those who have come up big this year, I want to send a special shout out to our Executive Board, who have been a constant source of communication for me throughout the year, and who have helped support Brooke and Robbie in performing their magic. Mike King, immediate past President: what a help he's been to INAIR for the past 4 years or so. Amia Foston, the Secretary who rotates off the Board this year: thanks for keeping me on track! Mike Sauer, our beloved Treasurer who is serving as mentor to our incoming Treasurer (who I can pester for another year now!). And Brian Matve, our web administrator and my partner in crime, who has done a fantastic job culling resources to post and working with Mike S. to make sure the registration was up and running!

Last but not least, please thank our sponsors at each level below. It is with their assistance and generosity that keeps INAIR members fed! Please stop by, say hi, chat about their products. Even if you're not buying, it doesn't hurt learning a bit more about what so many of our office use:

- Gold: Indiana Campus Compact

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

Best,

Ron Severtis

Director, Office of Institutional Effectiveness

President, Indiana Association for Institutional Research (INAIR)

Indiana University Southeast

rseverti@ius.edu

A note from VP/Conference Planning Chair: Brooke Moreland

Brooke Moreland is the Vice President and 2018 Conference Planning Chair for the Indiana Association for Institutional Research and the Assistant Director of the IUPUI 21st Century Scholars program, where she assists 2400+ scholars in maintaining their scholarship award and in gaining a better understanding of the college landscape. Student advocacy and understanding how organizational change and policy impacts high risk populations is her research interest. She believes there is no way to serve as a competent leader without understanding the people who you serve and how your leadership decisions impact the lives of those at lower levels of multi-layered governing structures.

Dear INAIR Members-

We are very excited to have everyone attending the 32nd annual Indiana Association for Institutional Research Conference at the Omni Severin Hotel in Indianapolis, IN. A lot of hard work has gone into the planning and execution of this year's conference. It has been an honor to be a part of a team that sincerely cares about their organization and in ensuring that events are successful and effectively meets the needs of INAIR members.

This year has been exciting, because there were many new things that were inducted into the INAIR culture. We successfully executed an INAIR internship. It was an 8-week opportunity with a full-time undergraduate student from Indiana University South Bend. Some of you even received individualized invitations from our student for you to register and present for this year's conference. The student is also publishing an article in the student affairs magazine called TRENDS with the Great Lakes Association of College and University Housing Officers. I hope that she is selected for manuscript publication in spring 2018.

We have also inducted the usage of Guidebook for our conference proceedings. Recognizing the changing landscape of higher education, through the usage of this application, it is my hope that it streamlines your conference experience. You can create your own schedule and review our presentations using the application as well.

Again, thank you for attending this year's conference and I truly hope that you enjoy yourself. We have many quality presentations, poster presentations, and an awesome pre-conference scheduled for you all.
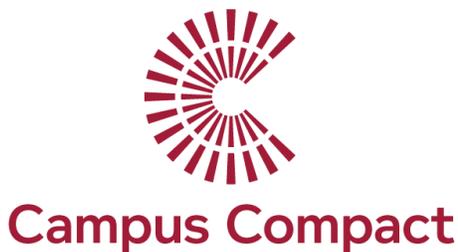
Sincerely-
Brooke Moreland

In appreciation for their generous gift, INAIR would like to recognize and thank the Lumina Foundation.

Lumina Foundation is an independent, private foundation in Indianapolis that is committed to making opportunities for learning beyond high school available to all. They envision a system that is easy to navigate, delivers fair results, and meets the nation's need for talent through a broad range of credentials. Their goal is to prepare people for informed citizenship and for success in a global economy.
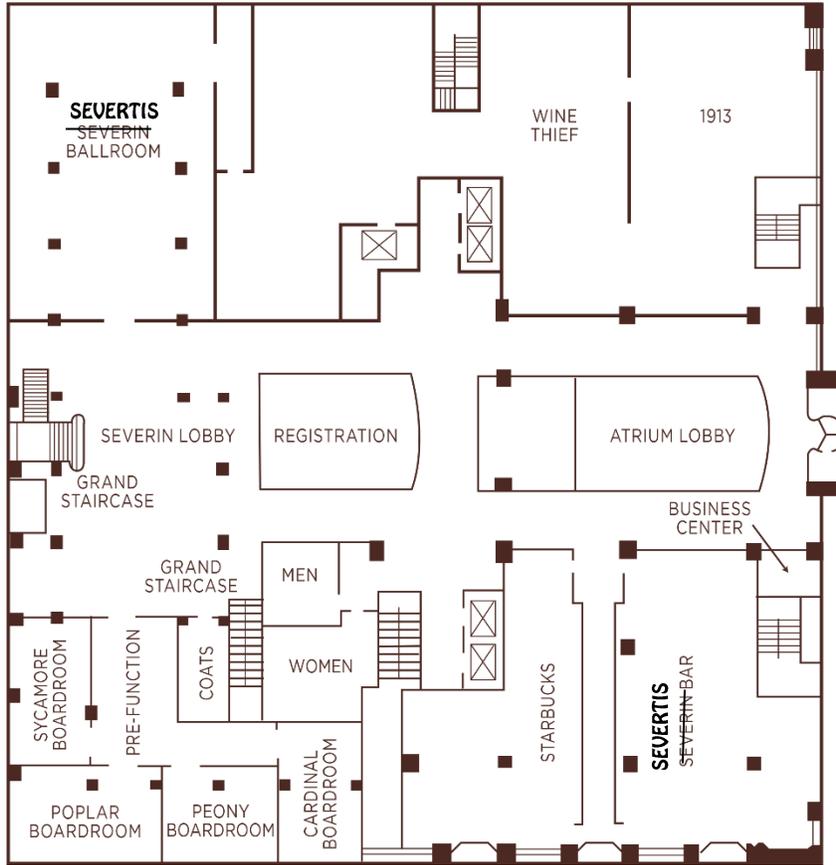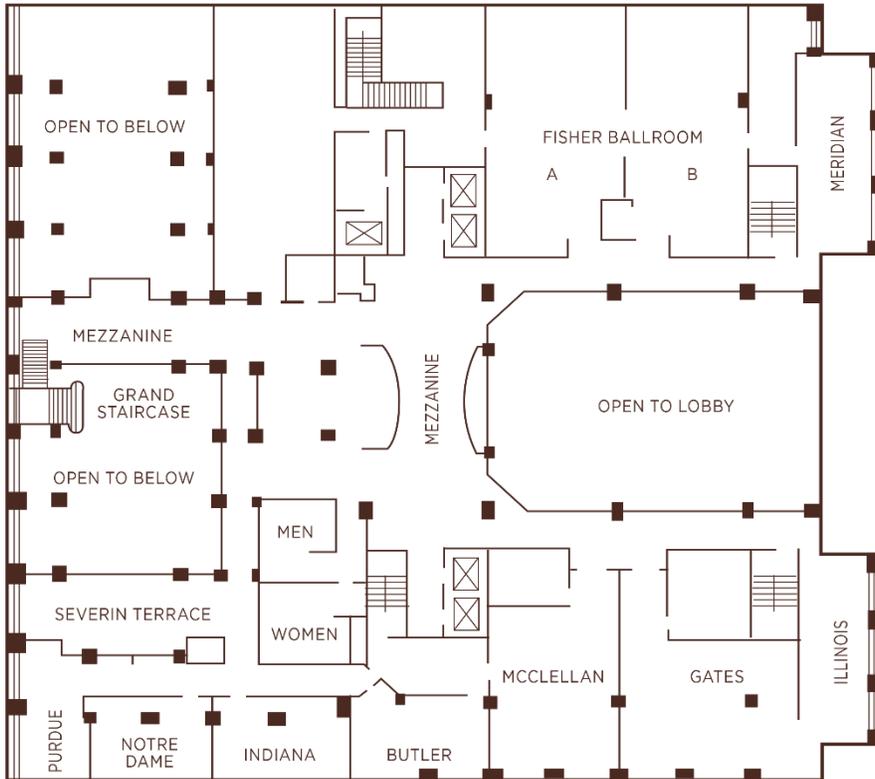
Special thanks to our sponsors!

Gold

Formed in 1993, Indiana Campus Compact is a partnership of college and university presidents and chancellors who have committed themselves and their institutions to their communities through mutually beneficial and meaningful collaborations to create engaged citizens and vibrant communities. Indiana Campus Compact is the only organization in the state that works with public, independent, and two year institutions of higher education.

Omni Severin Floorplan

Lobby Level

SEVERTIS
SEVERIN BALLROOM

WINE THIEF

1913

SEVERIN LOBBY

REGISTRATION

ATRIUM LOBBY

GRAND STAIRCASE

BUSINESS CENTER

GRAND STAIRCASE

MEN

WOMEN

COATS

PRE-FUNCTION

SYCAMORE BOARDROOM

STARBUCKS

SEVERTIS
SEVERIN BAR

POPLAR BOARDROOM

PEONY BOARDROOM

CARDINAL BOARDROOM

Mezzanine Level

OPEN TO BELOW

FISHER BALLROOM

A

B

MERIDIAN

MEZZANINE

GRAND STAIRCASE

OPEN TO BELOW

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4

Schedule at a Glance

Thursday, March 22	
7:30am – 11:00am	Early conference registration - *Mezzanine*
8:00am – 11:00am	Pre-conference **FREE** Workshops - Multiple Rooms
11:15am – 12:30pm	Opening remarks and welcome lunch - Severin Ballroom, Sponsored by Indiana Campus Compact
12:45pm – 1:30pm	Helping Others Find Our Data: The Development & Improvement of an IR Data Workshop*- *Gates* ICHE Report Overview & Expanding Return on Investment- *Illinois* Making the Degree Work: First-Destination Outcomes Survey – *McClellan* Tracking and Reporting Student Engagement: A Case Study- *Meridian*
1:45pm – 2:30pm	Advancing Data Governance by Partnering with Academic Resources*- *Gates* Investigating the Impact of Online Classes on Undergraduate Degree Completion - *McClellan* Leading the Revision of Campus- Level Student Learning Outcomes: Obstacles and Accomplishments - *Meridian* Using Data Analytics to Determine Optimal First Year Class Schedules for Students*- *Illinois*
2:30pm – 3:15pm	Poster Presentations, Dessert Break
2:40pm – 3:00pm	IR Undergraduate & Graduate Paraprofessional Development: Hosting an INAIR Internship - *Meridian* Serving the State of Indiana: Understanding the Open Roles of the INAIR Executive Board – *Gates*
2:40pm – 3:15pm	A Preliminary Analysis of Factors Influencing the Employment Outcomes of Baccalaureate Degree Recipients – *Illinois*
3:15pm – 4:00pm	Assessing the Impact of a Dual Credit Program – *McClellan* Developing an Informational Portal - *Illinois* First Generation Continuing Gen…All Generations: Improving Support for Endurance and Student Success - *Gates* IR's Role in Empowering Student Advising through Learning Analytics*- *Meridian*
4:30pm – 5:00pm	Welcome reception - *Fisher Ballroom*
5:00pm – 5:45pm	Keynote Speaker – Jay Gladden, Dean of University College, IUPUI
5:45pm – 6:30pm	Business Meeting/Award Ceremony/Raffle Giveaway
Friday, March 23	
8:00am – 9:00am	Announcements & Updates: Breakfast Buffet – Severin Ballroom, Sponsored by Lumina Foundation
9:15am – 10:00am	A Tableau Tool for Strategic Enrollment Management- *Meridian* Enrollment Projection Xtreme: When Historical Data Don't Apply*- *Illinois* The Future of IR: Association for Institutional Research Listening Session - *Gates*
10:15am – 11:00am	A Different Perspective: What Academic Departments Can Do With Institutional Data- *Meridian* A Voice Heard: Membership Contribution for the 2018-2019 INAIR Year Retention of Students in STEM Disciplines: A Closer Look at Gender & Academic Performance*- *Gates*
11:00am – 11:30am	Hotel checkout
11:30am – 1:00pm	Executive Board Meeting (CLOSED)- Poplar Boardroom
	Indicates best paper submission

Thursday, March 22

Early Conference Registration

7:30am – 11:00am, Mezzanine level – Mezzanine

Pre-Conference Workshops

8:00am – 9:30am, Mezzanine level

Lean Continuous Improvement & Its Application with Institutional Research, Assessment, Planning, Accreditation, Effectiveness, Analytics, & Beyond, Nathan Bohlmann & Milton Flournoy, IU School of Medicine – Gates

This session will focus on the Indiana University School of Medicine (IUSM)'s experience in shifting its paradigm on accreditation from being an "audit" to an opportunity to enable a systematic approach towards continually improving the school's student services and instructional activities. The core idea of Lean is to maximize the value provided to those we serve (e.g. students) while minimizing the amount of wasteful activity. Key to this effort is performance management and how these measures are used in identifying opportunities to continually improve. This session will discuss Hoe Lean's continuous improvement concepts are applicable and complimentary to the work of institutional research, assessment, effectiveness, analytics, and beyond. Finally, this session will provide participants with a foundation of Lean concepts and provide information on how to learn more about the application of continuous process improvement inside and outside the work place.

8:00am – 11:00am, Mezzanine level

R for IR: A Brief Introduction for Institutional Research Professionals, Brendan Dugan, NSSE/Indiana University School of Education – Meridian

This workshop kindly and briefly introduces analysts to the open-source statistical programming language, R. R's capacity to flexibly handle a wide variety of common IR tasks, from data cleaning to reporting, makes it an ideal tool for analysts. Attendees will work through foundational concepts for working with R, from vectors and environments to simple functions and mathematical operations to control structures. Attendees will also work through the basic stages of research: data import, cleaning, and manipulation; hypothesis testing; reporting and visualization. R syntax, data files, and resources for further learning will be provided. Participants do not need prior R or other programming experience, but familiarity with Excel functions and other statistical software syntax (SPSS, MATLAB, SAS, Python, Stata) is beneficial. R and R studio should be installed prior to the workshop.

Reporting with R: It's Easier Than You Think, Alex Axthelm, Indiana Commission for Higher Education - McClellan

Have you heard that R will make your job easier? Maybe you downloaded it once but were scared off? That's okay. In this gentle, beginner-friendly hands-on workshop, you will use R to develop a simple, but impressive report. We will create a report from start to finish using relevant (IR) examples and real data. We will cover:

• Importing data

• Cleaning and Summarizing

• Plotting

• Building a snazzy (interactive!) report using RMarkdown.

• Automating your repetitive work

To help ensure that workshop time can be used effectively, please follow the instructions at https://github.com/IndianaCHE/R-Workshop-INAIR-2018 to download the data and applications needed.

8:30am – 11:00am, Mezzanine level

Newcomer's Workshop, Andrea Ingle, Indiana University Bloomington & Nandini Ramaswamy, Butler University – Meridian

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. Please bring a laptop!

9:45am – 10:30am, Mezzanine level

ICHE Initiative and Policy Update, Sean Tierney, Indiana Commission for Higher Education – Gates

This session 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.

10:40am – 11:00am, Mezzanine level

Serving the State of Indiana: Understanding the Open Roles of the INAIR Executive Board, Michael King & Ron Severtis – Gates

Come and learn about the open positions available for the 2018-2019 INAIR executive board!

Opening Remarks and Welcome Lunch – Sponsored by Indiana Campus Compact

11:15am – 12:30pm, Severin Ballroom

Concurrent Sessions

12:45pm – 1:30pm, Mezzanine level

Helping Others Find Our Data: The Development & Improvement of an IR Data Workshop, Michele Hansen, Steven Graunke, & Robbie Janik, Indiana University-Purdue University Indianapolis – Gates

In order to meet the need for continued professional development and educate users about available data resources, IRDS presented a workshop entitled "IUPUI Data: What's There and Where Can I Find It?" The goal was to steer faculty, staff, and students towards appropriate data resources, improve data literacy across campus, and provide tips and tricks to help participants use our Tableau reports more effectively. In this session, we describe the data sessions developed by IRDS, discuss the results of evaluations and how they have informed our next steps, and provide suggestions for attendees to develop similar sessions on their own campuses.

ICHE Report Overview & Expanding Return on Investment, Gina Deom & Jordan Allen, Indiana Commission for Higher Education – Illinois

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 Return on Investment Report. Current ROI metrics will be reviewed with discussions around potential additions using a variety of data sources. ICHE welcomes feedback from IR staff who work to measure and communicate the value of educational programs on their college campuses.

Making the Degree Work: First-Destination Outcomes Survey, Rosemarie Lerma, Indiana University Bloomington – McClellan

Career centers are integral to our understanding of first-destination outcomes for undergraduate students. From guiding students through the career exploration process to helping them gain the experience that will help them land their first career, career centers help students get to where they want to go. This poster will detail a study whose primary purpose was to examine how one large land grant university located in the Midwestern United States is preparing students to transition to life after college, what those outcomes look like, and how to use this information. The presenter will describe the results of a multiple methods investigation, the implications of the results, and how the information can provide decision support for campus leaders.

Tracking and Reporting Student Engagement: A Case Study, Margaret Dalrymple & Linda Ferguson, Indiana State University – Meridian

There is growing interest in the impact of academic and non-academic co-curricular student activity. However, it has been difficult for colleges and universities to capture, track and assess such activities. At Indiana State University, we have been capturing and reporting curricular engagement hours in several categories as well as student participation in organizations, volunteerism, and activities. This has led to our high national rankings for community service by Washington Monthly and our deep involvement in Campus Compact. Additionally, the State of Indiana has recently embarked on capturing work-based learning credit hours of which ISU is creating the high water mark. We will present examples of how this information is gathered, organized, reported, and assessed.

Concurrent Sessions

1:45pm – 2:30pm, Mezzanine level

Advancing Data Governance by Partnering with Academic Resources, Sarah Bauer & Kendal Kosta-Mikel, Purdue University – Gates

We need data governance to define data governance! It has many meanings and implementation paths. It continues to be a hot topic across all industries. In higher education, it's a priority to ensure that our critical asset, data, is available to make impactful, far-reaching decisions. This update on Purdue's data governance journey includes the use of Data Cookbook. The differentiation of data governance from business intelligence is underway with an increased focus on data quality. University collaboration re: standard definitions, reports and processes, from central and academic areas will determine success. Speakers represent a central office and an academic college.

Investigating the Impact of Online Classes on Undergraduate Degree Completion, Sharon Wavle, Indiana University – McClellan

This study builds on existing research that examines the impact of online courses on retention, completion, and student success. Using existing graduation rate, enrollment and grade data for undergraduate students at a multi-campus 4-year institution, we used logistic regression to determine the impact of taking online classes on degree completion, controlling for student demographic and academic factors such as age, first generation status, socioeconomic status, SAT/ACT scores, 1st semester GPA, and first generation student status. Preliminary results indicate that regardless of campus type, taking one or more online classes during their program of study increased students' likelihood of degree completion. This study also used dependent t-tests to compare student performance in online and on campus classes. Mixed results showed slightly higher or slightly lower online course grades compared to on campus course grades depending on type of campus.

Leading the Revision of Campus- Level Student Learning Outcomes: Obstacles and Accomplishments, Tony Ribera, Rose-Hulman Institute of Technology – Meridian

By the end of the academic year, the goal of the institutional assessment committee at Rose-Hulman Institute of Technology is to submit a final draft of revised campus-level student learning outcomes that includes characteristics of the learning environment, potential student artifacts, and primary traits of those artifacts. Motivating factors behind this effort include, but are not limited to, a need to: (a) ensure the alignment of campus-level student learning outcomes with new ABET outcomes; (b) promote entrepreneurial-minded learning; and (c) incorporate the co-curriculum and high-impact practices. Session attendees will be able to comment on the process and better understand the challenges and accomplishments encountered throughout.

Using Data Analytics to Determine Optimal First Year Class Schedules for Students, Randhir Rawatlal, University of KwaZulu-Natal, Durban, South Africa & Vic Borden, Indiana University – Illinois

The fields of Artificial Intelligence, Big Data and Data Science have revealed new methods for analyzing large quantities of data and supporting the optimization of decision making. In this session, the presenters will demonstrate the use of a web-based system for analyzing class enrollment data. The analysis will specifically focus on first year students in their classes. Various types of data mining and artificial intelligence methods will be used to determine the optimal combinations of courses for sub-groups of students based on their background and interests so as to improve the likelihood of success in their intended field of study.

Poster session, Dessert Break

2:30pm – 3:15pm, Mezzanine (facing Severin Lobby)

Easy Living to Livin' On A Prayer, Roommate Compatibility, Emily Winegard, Indiana Wesleyan University

This research explores the factors of roommate compatibility within a small, Midwestern university. To determine the accuracy, a random sample of 100 residential Indiana Wesleyan University students were invited to participate in a survey to measure their compatibility level with their roommates. There were 69 students who responded. The survey consisted of 20 questions. Participants were asked to respond to questions within the survey relating to their experiences in rooming with other people on campus. A Likert scale from 1-5 was used for the participants to indicate how important or unimportant a generalized factor was to them as well as if they always or never have an argument or spend time with their roommate. After running tests through SPSS, the major implications were that speedy conflict resolution and spending time together had a positive effect on roommate compatibility but more research is needed to fully understand this relationship.

Investigating the Relationships Between Feminism and Perceived Pressure to Marry in Undergraduate College Students, Katura Rowe, Indiana Wesleyan University

The purpose of this study was to investigate the degree to which feminist beliefs impact the level of pressure women feel to find their spouse during their college years. The researcher hypothesized that women with stronger feminist beliefs will feel less pressure to marry during, or shortly after their college years (early 20's). To test this, a random sample of 1,000 residential college females from Indiana Wesleyan University were invited to participate in a two-part survey designed to measure both their level of feminist beliefs and how much pressure they feel to get married. With a response rate of 37% (N = 372), these results confirmed the hypothesis of a relationship between feminism and pressure to marry. The major implications are that a feminist outlook can have a positive effect on college women's ability to cope with the pressure to marry, and give them the confidence to succeed in life regardless of being married.

Leading the Revision of Campus-Level Student Learning Outcomes: Obstacles & Accomplishments, Tony Ribera, Rose-Hulman Institute of Technology

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Making Entering Student Surveys Relevant and Actionable, Jessicah Rauch, Indiana University-Purdue University Indianapolis

Beginning freshmen entering student surveys are one of the most important surveys in the cycle of a student. This survey is important as it helps the university and decision makers within the university get a glimpse into how the new beginning student cohort is feeling and what activities they see themselves doing while in college. Indiana University-Purdue University Indianapolis (IUPUI) has gone through a few variations before landing on the current version of the Entering Student Survey. By continuously working on the survey, some tips and tricks have emerged to help ensure our survey is actionable and beneficial to decision makers on campus. Different decision makers on campus utilize IUPUI's Entering Student Survey results to investigate the predictors of student success, learn about beginning freshmen students, and investigate the predictors of student success.

Making the Degree Work: First-Destination Outcomes Survey, Rosemarie Lerma, Indiana University Bloomington

Career centers are integral to our understanding of first-destination outcomes for undergraduate students. From guiding students through the career exploration process to helping them gain the experience that will help them land their first career, career centers help students get to where they want to go. This poster details a study whose primary purpose was to examine how one large land grant university located in the Midwestern United States is preparing students to transition to life after college, what those outcomes look like, and how to use this information. The presenter will describe the results of a multiple methods investigation, the implications of the results, and how the information can provide decision support for campus leaders.

Concurrent Sessions, Dessert Break

2:40pm – 3:00pm, Mezzanine level

Serving the State of Indiana: Understanding the Open Roles of the INAIR Executive Board, Michael King & Ron Severtis – Gates

Come and learn about the open positions available for the 2018-2019 INAIR executive board!

IR Undergraduate & Graduate Paraprofessional Development: Hosting an INAIR Internship, Brooke Moreland - Meridian

This session discusses the spring 2018 8-week internship that took place from January-March 2018. Brooke will also discuss the competencies that students could gain from interning with INAIR, the benefits that INAIR receives from branching out to undergraduate and graduate student populations, and how the internship contributes to the growth of IR by allowing students to learn about INAIR and what your university or organization's IR office has to offer as a potential career.

2:40pm – 3:15pm, Mezzanine level

A Preliminary Analysis of Factors Influencing the Employment Outcomes of Baccalaureate Degree Recipients, Gary R. Pike Indiana University-Purdue University Indianapolis – Illinois

This presentation is intended for policy makers, institutional researchers, and higher education faculty and administrators who are interested in Indiana's accountability initiatives for postsecondary education. In addition, this study lays the groundwork for subsequent research using the Baccalaureate and Beyond 2008/2012 restricted use dataset and transcript files. The restricted use dataset contains a much larger array of measures about the college experience that institutional have some control over.

Concurrent Sessions

3:15pm – 4:00pm, Mezzanine level

Assessing the Impact of a Dual Credit Program, Linda Shepard & Abh'shek Kumar, Indiana University Bloomington – McClellan

Dual credit programs are specialized programs that allow high school students to continue their high school studies while earning college credit simultaneously. Credits earned through these programs count towards both their high school and college graduation which reinforce the student's success in many ways. First, by providing them an experience of a college-level course, which boosts their confidence. Second, by offering a discounted tuition, which reduces the overall cost of college. Third, by accumulating the college credits, which helps them to graduate early from the college. Indiana University is one of the leading providers of Dual enrollment program known as Advance College Project (ACP) in the state of Indiana. Since 1982, more than 90,000 high school students from 170 high schools across four states have participated in ACP program. In this demonstration, we will cover the life-cycle of the ACP program and also share our insights about the dual credit world which we have discovered during the process. Our analytic process divided into four chronological events in ACP student lifecycle which are: 1) the high school experience, 2) the transition into college or Postsecondary Admissions Funnel, 3) the Postsecondary experience and 4) the post-graduation experience

Developing an Informational Portal, Edwin Welch, Taylor University – Illinois

The ever increasing demand for data places a strain on IR offices to be able to provide timely and accurate data. To assist in addressing this challenge at Taylor University, the Office of Institutional Research entered into a strategic partnership with Information Technology to develop the Academic Information portal (AIP), a decision support tool for departments, Deans and Provost. The AIP provides trend analysis as well as on demand reporting. This presentation will provide the context and background that led to the development and implantation of the AIP reviewing the project life cycle from needs analysis, vision casting, development of functional requirements, beta testing to deployment.

First Generation Continuing Gen…All Generations: Improving Support for Endurance and Student Success, Polly Albright, Earlham College – Gates

Institutional Research data partners with Earlham College programming to contribute to the endurance and success of first-generation students. This presentation will examine the aspirations and completion rates of first-generation students compared to continuing generation students as well as some of the obstacles faced by all students. Survey data from the CIRP: The Freshman Survey, the College Student Inventory and local focus groups and multi-variate analysis will set the stage. Overview of the LIFT, McNair and Engagement Award programs – which are aimed at student success, will be shared. Outcomes of these efforts, in terms of retention rates and participation in graduate school, will also be discussed. There will be time for comments and questions.

IR's Role in Empowering Student Advising through Learning Analytics, Stefano Fiorini & Pallavi Chauhan, Indiana University Bloomington – Meridian

This paper discusses the outcomes from a partnership, between advising and institution research staff developing machine learning (ML) advising tools towards student success. Tangible benefits emerged from this dialectical partnership. Advisors gained a fuller understanding of the limitations and potentials of the ML products and researchers gained contextual insights for modeling and information provisioning. We will discuss the evolution of this partnership, the key implementation processes and on-going evaluations of the ML techniques and actions that drive future developments.

Reception, Keynote Speaker, Business Meeting, Raffle – Fisher Ballroom

4:30pm – 5:00pm, Reception w/ Hors d'oeuvres & drinks

5:00pm – 5:45pm, Keynote Speaker

Dr. James Gladden, Associate Vice Chancellor for Undergraduate Education & Dean of University College, Indiana University, Purdue University – Indianapolis (IUPUI)

Dr. James (Jay) Gladden leads the IUPUI Division of Undergraduate Education as associate vice chancellor for undergraduate education and dean of University College. He provides guidance and leadership for campus-wide student-success programs that serve students from orientation through graduation. Dr. Gladden previously served as the dean of the School of Physical Education and Tourism Management where he strategically increased student support, retention, and conferred degrees. Before coming to IUPUI, Dr. Gladden was associate dean at the Isenberg School of Management at the University of Massachusetts Amherst and a member of the Sport Management faculty. Gladden earned his Bachelor of Arts degree from DePauw University in 1988, his master's degree in sport management from The Ohio State University in 1991, and his doctorate in sport management from the University of Massachusetts Amherst in 1997.

He is excited about the prospect of addressing professionals and paraprofessionals working in Institutional Research from institutions from across the state of Indiana.

5:45pm – 6:30pm, Business Meeting, Treasurer's report, Voting of the slate of officers, raffle prizes, etc.

Friday, March 23

Announcements & Update: Breakfast Buffet, Sponsored by Lumina Foundation

8:00am – 9:00am, Severin Ballroom

Concurrent Sessions

9:15am – 10:00am, Mezzanine level

A Tableau Tool for Strategic Enrollment Management, Norma Fewell, Teresa Troke, Wendy Lin & Steven Graunke, Indiana University-Purdue University Indianapolis – Meridian

Decision makers at colleges and universities must have access to timely, actionable information in order to craft environments to maximize students' chances for success. This session will describe the process of developing our Strategic Enrollment Management 360 (SEM 360) suite of reports from conception through development to launch and continued improvement. We will also cover more technical aspects of the reports and show how Tableau can be a useful tool for sharing information to key decision makers across campus.

Enrollment Projection Xtreme: When Historical Data Don't Apply, Douglas Anderson, Bridgett Milner & Catherin Madinger, Indiana University Bloomington– Illinois

Predicting fall enrollment is vital to enrollment management. In a usual year, this can be a challenge; in a year of many large operational changes (including implementing the Common App), the standard models based on historical data become nearly useless. We share how we navigated a year of data chaos. Throughout the year, we managed leadership expectations, researched peer institutions' data, diversified our models, and ran many, many iterations of them. We carefully monitored output and additional related metrics, and had a fair bit of fun. We will be sticking with some of these approaches, even if we return to years that are more normal. Come see what we learned from our experiences.

The Future of IR: Association for Institutional Research Listening Session, Timothy Chow, Rose-Hulman Institute of Technology– Gates

The Association for Institutional Research (AIR) Executive Office leadership, in collaboration with Board members, have begun conducting listening sessions at conferences and events at which institutional research (IR) professionals are meeting. These sessions provide an opportunity for AIR leadership to hear from IR professionals about their needs and their vision for the future of the profession. This session offers an opportunity for INAIR members and conference attendees to share feedback on ways that AIR can help addressing the issues facing by the IR community and playing a role in shaping the future of our profession.

Concurrent Sessions

10:15am – 11:00am, Mezzanine level

A Different Perspective: What Academic Departments Can Do With Institutional Data, Margaret Dalrymple & Steven Stofferahn, Indiana State University – Meridian

Although senior leaders have been our primary consumers of institutional data and information, academic areas are also in need of data for tactical, operational, and strategic decisions. We will share our first-hand experience from two different perspectives – the academic department chair and the IR professional – in how academic departments can articulate their data needs, and institutional research can provide timely and useful information. We will share the various views, studies, and reports (from static to dynamic) plus discuss the various ways of providing data, accommodating needs and expectations, and communicating, all in order to support the academic areas. The discussion will center around examples of successful experiences and strategies for collaboration between IR and academic departments.

A Voice Heard: Membership Contribution for the 2018-2019 INAIR Year, Brooke Moreland & Robbie Janik, Indiana University-Purdue University Indianapolis – Illinois

This session is for INAIR membership to share their ideas of programs, and communication strategies that the INAIR Executive Board can take into consideration. Brooke and Robbie will have some items to share with those in attendance, and talk briefly about some items that will be discussed at the 2018 Executive Board meeting after the conclusion of the 32nd annual INAIR conference.

Retention of Students in STEM Disciplines: A Closer Look at Gender & Academic Performance, Yanan Feng, Stefano Fiorini, Linda Shepard, & Dennis Groth, Indiana University Bloomington – Gates

The six-year college retention outcome for STEM students is modeled by discrete-time event history analysis to examine the impact of gender and academic performance on retention in STEM disciplines. In this analysis, we describe how the risk of dropout varies over time as well as the differences in the risk by student characteristics, pre-college preparation, and the performance in STEM courses. The highest risk of dropping out from STEM disciplines occurs after the first semester. As expected, earning a low and medium grade in STEM courses has a negative impact on retention in STEM. A new metric called Grade Anomaly provides a relative measure of students' performance in STEM courses compared to other courses. Males are more sensitive to the STEM Grade Anomaly in persistence decisions than females. A gender difference is found in the retention of students in STEM disciplines. Even after controlling for the academic performance, or grade anomaly, female students have higher risk to leave STEM than males.

Hotel Checkout/Return lanyards

11:00am – 11:30am, lobby/check-in table

Conference Ends

11:30am

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

Executive Board Lunch Meeting (closed)

11:30am – 1:00PM, Poplar Boardroom

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