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This newsletter provides a summary of MWAIS 2018 which was hosted at the University of Missouri - Saint Louis (UMSL) and we give some insight into MWAIS 2019 which shall be hosted by University of Wisconsin - Oshkosh. An experts letter was received from the Dominican Republic of a CEO who owns an application development company.

Additionally, we share insights from a student who has travel internationally to conduct IS projects. These insights provide a glimpse into the global perspective of members in our Midwest chapter.

This newsletter serves as a medium to communicate news, share advertisements of sponsors who have allowed us to be able to host our annual conference, and other items.

Maurice Dawson
Greetings MWAIS members!

I appreciated the opportunity to serve as President of MWAIS for 2017-18. Now that my term has ended, it is a good time to reflect on our achievements in the past year. MWAIS has a long-standing tradition of excellence and I was committed to pursuing this tradition.

This past May, MWAIS was recognized by the AIS for the fourth year in a row as an Outstanding Chapter for 2017. Criteria for recognition include hosting events for members, offering workshops, or sponsoring conference tracks; publishing research; recognizing member achievements; communication and promotion of the group’s activities; and effective group operations.

So far 2018 has been a great year for our chapter, thanks to the hard work of the Executive Board members, the conference committee, and the participation and support from you, our members. We had a successful annual conference. We elected four new members to the Executive Board. We published an issue of JMWAIS in January. We introduced two new awards to recognize service: one for Best Reviewer for the conference determined by the Program Chair(s) and one for Outstanding Officer as voted by other officers. We updated our bylaws to better reflect our chapter’s needs. You can read more about some of these achievements in the newsletter. We are well on our way to be recognized a fifth time as an Outstanding Chapter for 2018.

The 13th Annual MWAIS conference hosted by the University of St. Louis Missouri was a great success. I would like to extend my thanks to the conference chair, Dr. Maurice (‘Mo’) Dawson, program co-chairs, Dr. Kailash Joshi and Dr. Dinesh Mirchandani and the rest of the committee, for putting together a well-attended conference with 58 papers. The conference was well attended with over 100 delegates. It offered a strong program on the conference theme, cybersecurity, as
well as excellent keynotes by Colonel Terrence A. Adams, Lieutenant Colonel George W. Sconyers III and Dr. Prashant Palvia, and several informative panel discussions. As always, the conference provided a wonderful opportunity to develop professionally and network with academics, industry professionals and government representatives. Highlights from the conference as well as several photos from the event can be found on pages 8–11.

Next year's conference – MWAIS 2019 – will be hosted by the University of Wisconsin–Oshkosh. In a departure from the usual Thursday–Friday, it will take place on Tuesday and Wednesday May 21–22, 2018. The conference chairs are Drs. Michael Eierman, Jakob Iversen, John Muraski and Don Heath, who is also our Treasurer. The social event planned at the EAA AirVenture Museum will certainly be a highlight. Papers from across the IS and IT disciplines are welcome but the conference will focus on a very relevant topic to academics and industry professionals, inclusiveness in the IT talent management pipeline. The registration fee is very reasonable and, with limited travel distance the conference, it is an affordable option to present your research, network, talk with others who share your interests, and experience the Midwest. For more on the conference venue and the call for papers see pages 17.

The 2020 conference will be hosted by Drake University in Des Moines, IA (2020). Hosting the annual conference is a great way to showcase your university, programs, and city while networking with colleagues from the Midwest region and beyond. See page 18 for more information if you are interested in hosting a conference.

The Journal of the Midwest Association for Information Systems (JMWAIS) is another platform through which to disseminate your research. Thank you to Dr. Rassule Hadidi and Dr. Dan Power for their continued dedication to the journal. JMWAIS is a double-blind, peer-reviewed, quality focused, and open-access online journal. A call for papers can be found on pages 19–20. JMWAIS also welcomes proposals for special issues from the MWAIS community, which is a great opportunity for tenure-track faculty to demonstrate leadership in their fields.

Finally, I want to thank our outgoing members of the Executive Board who have done an outstanding job during their respective terms: Kevin Scheibe as Immediate Past-President, Joey George as At-Large Director, Maurice Dawson on Membership and Promotions and Ryan Schuetzler as Secretary. I welcome the newly elected members to the MWAIS leadership team and look forward to their contributions to our Chapter in the coming year: Dr. Gaurav Bansal as At-Large Director, Dr. Anne Powell for Membership and Promotions, Dr. David Biros as Secretary, and Dr. Ryan Schuetzler as President-Elect. You can read more about them on page 22.
We welcome your participation, contribution and suggestions. Please let any of us on the Executive Board know how we can better serve you. The MWAIS leadership team with contact details can be found on pages 21-22.

To conclude, the strength of our chapter depends on you. MWAIS was started in 2005 to “promote the exchange of ideas, experiences, and knowledge among scholars and professionals in the Midwest U.S. engaged in the development, management, and use of information and communications systems and technology.” For our chapter to continue to achieve our goals, we need your involvement: come to the MWAIS conference, bring your graduate students, present your research, spread the word to your colleagues, engage with your Midwest colleagues, and consider hosting our annual conference at your school.

Thank you for the opportunity to serve and represent your interests. I hope that you are as proud as I am of what we’ve achieved over the past year. I want to take this opportunity to wish our new President, Dr. Dave Larson from the University of Springfield–Illinois, all the best for his term. I am confident that Dave will build on our achievements to date and look forward to supporting him in the coming year as Immediate Past-President.
MWAIS Recognizes Outstanding Officers

Our AIS community relies heavily on volunteers to serve in various roles. The MWAIS Executive Board voted to create an Outstanding Officer Award to recognize member(s) of the MWAIS Executive Board (EB) who show above-average leadership, dedication, and commitment to the chapter by executing duties exceptionally well and/or taking on duties beyond what is expected from per the MWAIS Bylaws in service of the chapters’ business.

Nominees must be nominated by a current member of the MWAIS who is familiar with the nominee’s contribution and accomplishments. The nominator must provide a supporting statement and evidence of the nominee’s contribution and accomplishments. The nominee must be a member in good standing of the AIS and MWAIS, be a current member of the EB at the time of nomination, and have attended at least 80% of all EB meetings during term of office. Activities need not be limited to the most recent year and could have taken place during any time while serving on the EB.

To receive the award, a nominee must receive the support of at least two-thirds of the current MWAIS EB members who participate in the vote. If there are multiple nominations meeting the criteria, more than one award can be made. If there are no nominations, nominations do not meet the criteria, or no nominations receive adequate support from the MWAIS EB, an award will not be made.

Chapter awards are presented each May at the annual conference. This year two Outstanding Officer awards were made. Ryan Schuetzler (Secretary) was recognized for his outstanding work on the time-consuming MWAIS logo redesign project as well as the new lapel pins, which were distributed to attendees at the MWAIS 2018 conference. Our new logo represents our chapter’s purpose to connect information systems academics, students and professionals from across the Midwestern United States and beyond. Shana Ponelis also received an Outstanding Officer Award in recognition of her work as President and for leading the MWAIS website design project with the help of a student team from the University of Wisconsin-Milwaukee’s Nonprof-IT initiative.

Thank you for your service to our chapter! We hope to recognize many more officers for their outstanding contributions in future.
HIGHLIGHTS FROM MWAIS 2018

In May 2018, the University of Missouri - Saint Louis (UMSL) hosted the 12th Annual Conference of the Midwest Association of Information Systems (MWAIS). This was one of the largest conferences yet in terms of academic participation with over 100+ participants and academics as far as Germany. Two of the keynote speakers came from Scott Air Force Base, and one from North Carolina.
Highlights from MWAIS 2018

The Department of Information Systems at the University of Missouri - Saint Louis (UMSL) hosted the 13th annual MWAIS conference Thursday, May 17th and Friday, May 18th. Approximately 100 attendees were welcome by Chancellor Thomas F. George and Executive Vice Chancellor Kristin Sobolik. Both welcome addresses spoke to the importance and timely need of this conference in the region.

Two of the three conference were keynotes were from the Department of Defense (DoD). Thursday morning’s keynote was from Colonel Terrance Adams who spoke on the role of United States Transportation Command (USTRANSCOM).

During this keynote Col. Adams spoke directly to the audience on why cyber security is essential to USTRANSCOM mission and reached out to the professors to urge them to develop tomorrow’s cyber workforce so the government can meet the rapidly growing demand.

Friday morning’s keynote was Lieutenant Colonel George W. Sconyers III who is currently at the Defense Information Systems Agency (DISA). His keynote was around the issues that government organizations are facing around cyber security. He spoke to the user being the weakest link and how that can be addressed by employing certain methods.
The final keynote was given by Dr. Prashant Palvia is the Joe Rosenthal Excellence Professor in the Bryan School of Business & Economics at the University of North Carolina at Greensboro. He gave the audience insight to his project. This project, the World IT Project spans continents and countries. This project is led by several professors with the help of many within the countries that gather data for researchers.

The mixer was held at the Missouri Botanical Garden on the evening of the 17th. This had participants from academia, industry, and the federal government.
photos from conference
Using Information Systems to aid the Agriculture Sector in West Africa

Walker was in Guinea, Conakry for two weeks. His assignment was to train the Agriculture Trainers and Specialized Technicians in Computer Information Technology. His tasks included the familiarization of hardware and basic software, document and file classification, Microsoft Word, Excel, PowerPoint, and using the Internet as a research tool.

Walker said, “The experience enabled me to contribute to the global society through job-related training for the betterment of the agricultural industry in Guinea. While I was not training, I learned about the culture. The level of respect and hospitality I received while in Conakry was absolutely unprecedented. The meals were amazing and the food was fresh; especially the fruit.”
Walker gave some advice for those looking into joining the program. He said, “This assignment has provided multiple opportunities for both professional and personal growth. Professionally, I’ve leaned on my leadership, research, and communication skills. In regards to the personal impact, I would categorize this experience as transformational. The way I look at the world, humility of man, and the notion of community has evolved tremendously. I know that this experience is just the beginning for my future volunteer endeavors.” [taken directly from Kat Riddler, Managing Editor of The Current]

About the interviewee. Damon Walker is a Master of Business Administration student in the College of Business Administration at the University of Missouri - Saint Louis. His employed as a Data Analyst with Century Link. He received his undergraduate degree in Information Systems from UMSL as well. Last year he completed an assignment to Conakry, Guinea for computer training for which he received the Bronze Presidential Volunteer Service Award (PVSA). For this year he will receive the Silver PSVA for his assignment in Senegal.
Establishing an Enterprise Security Architecture

BY DR. PEDRO M. TAVERAS

Effective security architectures help organizations to improve coordination and business security efforts. Intrusion detection systems, firewalls, policies, and software tools play a key role in protecting organizations against external threats. To maximize these security tools, as well as existing policies and procedures, companies must have an enterprise architecture that integrates all these various elements.

A formal security architecture should be a structured and coordinated activity that takes into account the people, processes, and tools that work together for securing the resources of an organization and should be linked to the continuous flow of information that runs through the entire organization.

There are multiple ways of approaching the design of a security architecture, whatever approach we choose should take into account at least four key elements: information, strategies and business goals, and the fundamentals of security and risk management. These four elements should reveal the specific needs of an organization to meet the challenge of making information a valuable asset, and its protection a systematic practice.

- Insecurity of information in an inherent property of a system, therefore it is the duty of the architecture to discover it and understand it.
- The architecture of information security should be flexible and adaptable as insecurity of information is constantly evolving (Resilient).
- The architect must understand that security is an emergent property of a system and therefore should generate the variety required to meet its internal and environmental threats.
- Any design that intends to address the insecurity of information should favor self-regulation, self-adaptation, and learning, to leverage the value of information, strategies and business goals, and the fundamentals of security and risk management.

To design an adequate security architecture is necessary to estimate the security needs of the organization, evaluate and choose products, design and establish policies. Therefore, any professional responsible for the security management must evaluate the following aspects of information security:
• Security attacks: What actions can compromise the security of information pertaining to the organization?
• Security mechanisms: What mechanisms must be implemented to detect, prevent or recover from an attack on the security of information?
• Security services: What services will be offered to the user regarding the transfer of information. The security services must counter attacks and for that make use of the security mechanisms to provide that service.

An enterprise view of the architecture of information security is recognized in the business capabilities, strengths and anticipatory mechanisms designed to protect information flows that feed the strategy. Is to look at the wisdom of security incidents, the knowledge required to shield the responses of the organization against its threats. Is to understand the expectations of stakeholders, as challenges and suggestions transformation strategies make information security, a real and apparent input of how business goals are achieved.

Another example, is the Layered Protection model for Information Systems Security Architecture. This model supports its grounds of five phases that shows how a security architecture for an information system can be developed by establishing some guidelines.

<table>
<thead>
<tr>
<th>Phase</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Perform Security Assessments</td>
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<tr>
<td>2</td>
<td>Formulation of Design Goals</td>
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<tr>
<td>3</td>
<td>Construction of Policies and Procedures</td>
</tr>
<tr>
<td>4</td>
<td>Implementation of Design Goals</td>
</tr>
<tr>
<td>5</td>
<td>Maintain security status</td>
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</tbody>
</table>

• Phase 1: The purpose of this phase is to find vulnerabilities to the information system, independent of which controls have been applied or not.
• Phase 2: Founded on the results of Phase 1, defines the objectives of the architecture at a high level. Takes into account the definition of the logical and physical architecture of the information systems and IT infrastructure.
• Phase 3: Given the results of the two previous stages, develop an appropriate policy for the business, it must be defined taking into account the framework of the corporate policy.
• Phase 4: Establish deadlines, funding, and resources to implement the architecture.
• Phase 5: Integration of security practices to maintain security status.
Enterprise security architecture design must ensure confidentiality, integrity, and availability throughout the enterprise and must be aligned with the corporate business objectives. Elements that should be present in the design are:

- Policy
- Security Domains
- Trust Levels
- Tiered Networks
- Documentation (Policies, standards, and guidelines)
- Services (User awareness, guidance, administration, response, and audit)
- Technology (Intrusion detection systems, firewalls, software tools, and hot based protection)

In closing, Business knowledge is essential to achieve the proper functioning of the security architecture. All depends on the decisions made in the definition and operation of the model and its appropriate alignment with the business strategies. As in any process of organizational change, implementing security architecture in organizations depends largely on the support of senior management.

When designing an enterprise security architecture, a good practice is to prioritize security concerns in the following order: people, policy, and then technology. Security Architecture is an interdisciplinary administrative scheme, for this reason, it must be in constant feedback. This will allow it evolution in hand with organizational growth and business environment, thus ensuring a consistent architecture to organizational needs. Any architectural model chosen, must include compliance phases that reflect: monitoring, continuous improvement and the continued commitment of those who manage the information assets of an organization.

About the interviewee. Dr. Pedro Taveras is the Executive Director for Xstudia Software Constructor, LLC, a software development firm that produces software solutions for governments, sports statistics, business and education. He has over 20 years of experience in software engineering, programming algorithms, distributed computing and information security architecture.
MWAIS 2019

The 14th Annual Conference of the Midwest AIS will be held May 21-22, 2019 in Oshkosh, Wisconsin at the University of Wisconsin-Oshkosh. MWAIS 2019 seeks to expand the information frontiers of IS and we invite submissions reflecting a plurality of perspectives on the discipline. The conference theme will be “Inclusiveness in the IT Talent Management Pipeline”. We especially welcome submissions relevant to this theme.

The city of Oshkosh has considerable experience welcoming visitors. The surrounding Fox Valley offer many recreational, entertainment, and dining opportunities for guests. EAA Airventure Oshkosh, hosted by the Experimental Aircraft Association, is an annual event which attracts more than 500,000 people to the city.

For more information visit the following: https://mwais2019.wordpress.com/
CALL FOR MWAIS ANNUAL CONFERENCE ORGANIZER
GAURAV BANSAL, AT-LARGE DIRECTOR, MWAIS

The Midwest United States Association for Information Systems (MWAIS) is a Chapter of the Association for Information Systems (AIS) serving Midwest US members of AIS. The states served by this Chapter include Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, and Wisconsin.

Past MWAIS conferences have been great successes, hosted by:

2018 - College of Business Administration, University of Missouri Saint Louis, Saint Louis, Missouri
2017 - College of Business and Management, University of Illinois Springfield, Springfield, Illinois
2016 - School of Information Studies, University of Wisconsin - Milwaukee, Milwaukee, Wisconsin
2015 - Pittsburg State University, Pittsburg, Kansas
2014 - College of Business, Iowa State University, Ames, Iowa
2013 - Illinois State University - Normal, Illinois
2012 - Austin E. Confrin School of Business, University of 2010-Wisconsin – Green Bay
2011 - University of Nebraska at Omaha, Omaha, Nebraska
2010 - School of Business, Minnesota State University Moorhead, Moorhead, Minnesota
2009 - College of Business and Information Systems, Dakota State University, Madison, South Dakota.
2008 - College of Business, University of Wisconsin – Eau Claire, Eau Claire, Wisconsin.
2007 - College of Business and Management, University of Illinois Springfield, Springfield, Illinois
2006 - Seidman College of Business and Padnos College of Engineering and Computing at Grand Valley State University, Grand Valley, Michigan

The goal of the Chapter is to promote the exchange of ideas, experiences, and knowledge among scholars and professionals in the Midwest US engaged in the development, management, and use of information and communications systems and technology. To learn more about MWAIS activities, please visit our Web site: http://www.mwaiss.org and/or MWAIS Conference Proceedings site: http://aisel.aisnet.org/mwaiss/.

The MWAIS executive committee is seeking expressions of interest via email to Shana Ponelis (ponelis@uwm.edu) for hosting the 15th (2020) and a future MWAIS meeting to be held in 2022 or beyond. The meeting is generally held during the second or third week in May for a day and a half. Hosting this meeting is a great way to showcase your university, programs, and city while networking with colleagues in the Midwest region and beyond.

The 13 th MWAIS meeting will be hosted by College of Business Administration of the University of Missouri - St. Louis in 2017 and the 14 th MWAIS meeting will be hosted by University of Wisconsin-Oshkosh in Oshkosh, WI.
Call for Papers

We are pleased to inform you that the latest issue of the Journal of the Midwest Association for Information Systems (JMWAIS) was published in July 2018. We invite you to submit a manuscript for review for the next issue to be published in January 2019.

JMWAIS is a double-blind, peer-reviewed, quality focused, SCOPUS indexed and open-access journal. JMWAIS publishes original articles related to Information Systems (IS), Information Technology (IT), and Management Information Systems (MIS). The editorial emphasis is on interdisciplinary research involving IS/T and MIS from organizational and individual perspectives. JMWAIS strives to be unique, in both its interdisciplinary Information Systems focus and its commitment to authors of an expedited and constructive review process. Specifically, our editorial policy encourages authors from various business users and technical tools disciplines to submit interesting IS/T and MIS related manuscripts. Case studies with case teaching notes as well as practitioner’s oriented manuscripts are also considered for publication in the journal. The Editorial Board emphasizes a balanced vision between rigor and relevance. Both academic scholarly-oriented and more practitioner-oriented submissions are welcomed.

Submission Guidelines

- Submissions may be between 7 and 20 pages long, single-spaced.
  
  1) For an empirical article, the target length is 5,000 - 7,000 words.
  
  2) For a review article, the target length is 4,000 - 5,000 words.
  
  3) For a viewpoint article, the target length is 3,000 - 4,000 words.

- Submissions should be in MS Word file format using 10-point Times New Roman font.
- Please follow APA citation style.
- Authors may include hyperlinks in their manuscripts.
- Submissions should include a 100 - 200 word abstract and 3-4 key words.
- Except on the title page, authors should not identify themselves or their affiliation in their manuscripts.
- Submission deadlines: September 15th for January issue and March 15th for July issue.

Please visit www.jmwais.org for additional information.
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Contact
Daniel J. Power, Ph.D.
Professor of Management and Information
Systems Department of Management
University of Northern Iowa
Cedar Falls, IA 50613
(319) 273-2987
daniel.power@uni.edu

Rassule Hadidi, Ph.D.
Professor and Head
Department of Management Information Systems
University of Illinois Springfield
Springfield, Illinois 62703
(217) 206-7294
rhadi1@uis.edu
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[7] Newsletter Editor: Maurice Dawson, University of Missouri - St. Louis, dawsonmau@umsl.edu

[8] At-Large Director: Joey George, Iowa State University, jfgeorge@iastate.edu
MWAIS NEW MEMBERS

[1] **At-large Director**: Gaurav Bansal, University of Wisconsin-Green Bay
Dr. Gaurav Bansal is Frederick E. Baer Professor in Business at the Austin E. Cofrin School of Business at UW-Green Bay. He is a past President of Midwest Association for Information Systems (MWAIS), and is serving as Chair / Academic Director of the Master of Science in Data Science program at UW-Green Bay. PhD from University of Wisconsin-Milwaukee.

[2] **Membership and Promotions**: Anne Powell, Southern Illinois University Edwardsville
Dr. Anne Powell is an Associate Professor and Department Chair in Computer Management and Information Systems. Dr. Powell has 10 years corporate experience as a systems and business analyst. She teaches systems analysis and design.

She is also interested in virtual teams, impact of new technology on individuals, teams, organizations and technology-enhanced education.

[3] **Secretary**: David Biros, Oklahoma State University
Dr. David Biros is a retired Air Force Lt Col with a background in information technology and security. He is the Immediate Past-President of the AIS Special Interest Group on Information Security and Privacy (SIGSEC). Published in MIS Quarterly, Decision Support Systems and many other journals and conference proceedings. Actively involved in student recruitment efforts. PhD from Florida State University.

[4] **President-elect**: Ryan Schuetzler, University of Nebraska at Omaha
Dr. Ryan Schuetzler is an Assistant Professor in the Information Systems and Quantitative Analysis Department at the University of Nebraska at Omaha. His research focuses on how people interact with new forms of technology. Ryan served as the Secretary of MWAIS from 2016 to 2018. PhD from University of Arizona.
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