



THEN
1994

**...AND 20
YEARS
LATER!**



21st AZFA CONFERENCE

October 12 – 15, 2014

Evansville, IN



AQUATIC ECO-SYSTEMS™



Welcome to Evansville, Indiana!

On behalf of the Mesker Park Zoo & Botanical Garden, we welcome our AZFA members and guests to the 21st Annual Conference. We're so excited to host on the 20th anniversary of AZFA at the site of the very first conference! Please let us help make the most of your visit. We encourage you to take advantage of every opportunity to learn new ideas, network with colleagues, discover new contacts, and celebrate 20 years of this wonderful organization.

CONTENTS

Agenda at Glance.....	Page 3
Concurrent Sessions and Workshops.....	Page 7
Exhibitors and Sponsors.....	Page 16
Things to Do and See in Evansville.....	Page 20
General Information.....	Page 21

21st Annual AZFA Conference Agenda at a Glance

Saturday, 11th October 2014		
Time	Activity and Location	
6:30 – 9:00 pm	Conference Registration & Info Booth	Atrium and Pre-Function Area
7:00 – 9:00 pm	<i>Vendor Load In for Pre-conference Tour Participants</i>	<i>Walnut A & B</i>
7:00 – 11:00 pm	Board Meeting/Dinner	

Sunday, 12th October 2014– Preconference Golf Outing & Ice Breaker		
Time	Activity and Location	
7:00 – 8:00 am	Breakfast on your own	
8:00am – 5:00 pm	Conference Registration & Info Booth	Atrium and Pre-Function Area
7:00 am	Depart Hotel for Golf Outing	Meet in Lobby at First Street Entrance
12:00 – 5:00 pm	<i>Vendor Load In</i>	<i>Walnut A & B</i>
5:00 pm	Ice Breaker Group Photo	Tropicana Plaza at Riverfront
5:15 pm	Ice Breaker Hog Roast	Tropicana Plaza

Monday, 13th October 2014		
Time	Activity and Location	
7:00 – 9:00 am	Breakfast on your own	
8:00 am – 7:00 pm	Conference Registration & Info Booth	Atrium and Pre-Function Area
9:30 – 9:45 am	Welcome – Mesker Park Zoo Staff	Walnut A & B
9:45 – 11:00 am	Business Meeting – Summary Reports President Report, Treasury Report, Elections, Website	Walnut A & B
11:00 – 11:15 am	Break	Walnut A & B
11:15 – 11:30 am	2015 Host Presentation John Kanzia	Walnut A & B
11:30 am – 12:00 pm	Vendor Introductions	Walnut A & B
12:00 – 1:30 pm	Vendor Lunch Meet and greet; cards provided for vendor raffle.	Walnut A & B
1:30 – 2:15 pm	<u>Session 1: Save Energy without Energy Audits</u> Doug Hargrave, Iconergy @ Walnut D	<u>Session 2: Clark Waldram Grant Updates</u> Allmon Forrester, John Ball Zoo @ Walnut E
2:20 – 3:05 pm	<u>Session 3: Sustainable Cleaning & A Healthy Workplace</u> Jim Perez, Staples Advantage @ Walnut D	<u>Roundtable 1: Emergency Response</u> Evansville Police Department @ Walnut E
3:05 – 3:15 pm	Break	Walnut A & B

Monday, 13th October 2014 continued

Time	Activity and Location	
3:15 – 4:00 pm	<u>Session 4: Designing & Building a Net Zero (Energy AND Water) Exhibit</u> Mark Fisher, Cincinnati Zoo @ Walnut D	<u>Workshop 1: Solvent Cementing and LXT Piping</u> Michael Sass, Spears Manufacturing @ Walnut E
4:05 – 4:50 pm	<u>Roundtable 2: Sustainability Reports</u> Allmon Forrester, John Ball Zoo @ Walnut D	<u>Workshop 2: Water Quality Testing</u> John Kanzia, Brookfield Zoo @ Walnut E
4:55 – 6:30 pm	<u>Vendor Meet & Greet Trade Show</u> Cash bar and Appetizers	Walnut A & B
After 6:30 pm	Dinner on your own	
9:00 – 11:00 pm	Hospitality Suite Open	

Tuesday, 14th October 2014

Time	Activity and Location	
6:00 – 9:00 am	Breakfast on your own	
8:00 am – 7:00 pm	Conference Registration & Info Booth	Atrium and Pre-Function Area
9:00 – 9:45 am	<u>Workshop 3: Permit-Required Confined Spaces Entry Requirements</u> Al Aerni, Cincinnati Zoo	Walnut F
9:00 – 9:45 am	<u>Special Panel: History of AZFA</u> Featuring Bill Pawlecki, Terry Poag, Keith Schnell & Dan Snyder	Walnut A & B
9:50 – 10:35 am	<u>Session 5: Building a Biodiesel Plant</u> Adam Malstaff, San Antonio Zoo @ Walnut D	<u>Session 6: Basic Life Support Systems – Their Components & Functions</u> Brian Brawner, R&B Aquatic Distribution @ Walnut E
10:35 – 10:45 am	Break	Walnut A & B
10:50 – 11:35 am	<u>Roundtable 3: Starting Energy Conservation – Low-Hanging Fruit Approach</u> Andy Peterson, PDZA @ Walnut D	<u>Session 7: Zoo Fire & Life Safety</u> Ajay Gulati, Smithsonian Institution @ Walnut E
12:00 – 1:00 pm	<u>Lunch & Presentation: Stonemakers</u>	Walnut A & B
1:00 – 1:45 pm	<u>Workshop 3: Permit-Required Confined Spaces Entry Requirements</u> Al Aerni, Cincinnati Zoo	Walnut F
1:00 – 1:45 pm	<u>Roundtable 4: Energy Benchmarking - Is It Important to the ZAQ Industry?</u> Bob Wengel, Shedd Aquarium @ Walnut D	<u>Session 8: Tracking Time & Utilities – You Can't Manage What You Don't Know</u> Allmon Forrester, John Ball Zoo @ Walnut E

Tuesday, 14th October 2014 continued

Time	Activity and Location	
1:50 – 2:35 pm	<u>Session 9: LED Lighting for Zoo & Aquarium Exhibits</u> Bob Burham, Ecoxotic @ Walnut D	<u>Roundtable 5: AZA Accreditation</u> Sam Peterson, San Antonio Zoo & Rudy Castaneda, El Paso Zoo @ Walnut E
2:40 – 3:25 pm	<u>Session 10: Performance Package Delivery Method for Zoo Exhibits</u> Mariusz Bleszynski, PGAV @ Walnut D	<u>Session 11: Smart Source Your Buildings – Waterproofing Simplified</u> Ron Neely, Garland Industries @ Walnut E
3:25 – 3:35 pm	Break	Walnut A & B
3:35 – 4:20 pm	<u>Session 12: Natural Filtration</u> Paul Bouseman, Mesker Park Zoo @ Walnut D	<u>Session 13: Variable Frequency Drive Basics</u> Larry Stanley, ABB @ Walnut E
4:25 – 5:10 pm	<u>Session 14: Building Amazonia</u> Erik Beck, Mesker Park Zoo @ Walnut D	<u>Session 15: Understanding the Health Risks of Bulk Soap</u> Suzanne Andrew, GOJO @ Walnut E
4:00 – 6:00 pm	<i>Vendor Load Out</i>	<i>Walnut A & B</i>
5:00 – 6:00 pm	Committee Meetings	To be announced by committee chairs
After 6:00 pm	Dinner on your own	
9:00 – 11:00 pm	Hospitality Suite Open	

Wednesday, 15th October 2014 – Zoo Day

Time	Activity and Location	
6:30 – 7:45 am	Presidents Breakfast	
6:00 – 7:45 am	Breakfast on your own	
8:30 – 8:45 am	Buses depart for Zoo	Meet in Lobby at First Street Entrance
8:45 am	Group Photo	Mesker Park Zoo entrance
9:00 am	Welcome to the Zoo – Zoo staff	Entry Plaza
9:30 am – 12:00 pm	Behind-the-Scenes Tours	Or explore the Zoo on your own
10:00 am	<u>Workshop 4: Welding</u> Frank Guidry, Woodland Park Zoo @ Maintenance Shop	<u>Workshop 5: Air Quality Testing</u> John Kanzia, Brookfield Zoo @ Amazonia Research Station
12:00 – 1:30 pm	Lunch	Key Building Exhibit Hall
1:30 – 2:15 pm	<u>Workshop 1 continued: Solvent Cementing and LXT Piping</u> Michael Sass, Spears Manufacturing @ Maintenance Shop	<u>Workshop 6: Spartan Tool Demonstration</u> Eric Boonstra, Spartan @ Maintenance Shop
1:30 – 3:00 pm	Behind-the-Scenes Tours	Or explore the Zoo on your own
3:15 pm	Return to Hotel	Buses depart from Zoo

Wednesday, 15th October 2014 – Zoo Day continued

Time	Activity and Location	
4:00 – 5:30 pm	Silent Auction and Banquet Set Up	Walnut A & B
5:30 pm	Cash Bar Opens & Auction Preview	Walnut A & B
6:00 – 7:30 pm	Silent Auction	Walnut A & B
7:30 – 9:30 pm	AZFA Banquet Dinner	Walnut A & B
9:30 pm – 11:30 pm	Hospitality Suite Open	

Thursday, 16th October 2014 – Post Conference Tour to Louisville Zoo

Time	Activity	Location
7:00 – 8:00 am	Breakfast on your own	
8:00 am	Load buses and depart for Louisville Zoo	Meet in Lobby at First Street Entrance
10:00 am – 3:30 pm	Post Conference Tour	
3:30 pm	Load buses and return to hotel	Buses depart from main entrance/exit gate
5:30 pm	Arrive back at Hotel	
After 5:30 pm	Departure or dinner on your own	

Thank you for your participation and support!

Concurrent Sessions & Workshops

The AZFA Program & Education Committee would like to extend our sincerest gratitude to our workshop hosts; you take the extra time and bring additional equipment to the conference in support of the AZFA's mission of providing hands-on education of the various field techniques to help ensure that quality work is being performed at institutions across the globe. Without your commitments, this goal is unreachable.

Session 1: Save Energy without Energy Audits - Ongoing Cx and Aggressive Benchmarking Get Results

Monday, October 13th – 1:30 p.m. – Walnut D

Energy audits are great but there are other ways to save money and energy with limited resources. Aggressive benchmarking leads into ongoing (OCx) and monitoring-based (MBCx) commissioning, which is a technology driven way of providing continuous improvements to facilities. In this session, OCx and MBCx examples of actual buildings and the corresponding results will be shown so facility staff can be using OCx and MBCx as a diagnostic fault detection tool as well as means to saving energy and money at their facilities.

- **Doug Hargrave, Senior Project Manager and Kara Brooks, Project Development Manager, Iconergy**

Doug brings 20 years of experience of developing and executing energy efficiency and sustainability projects, including almost a decade of zoo experience. While the majority of his experience is in existing facilities he also has a portfolio of new facility design, commissioning, and sustainability projects as well as broad-based programs at zoos that include but go well beyond LEED. Doug holds a Bachelor's of Science in Mechanical Engineering from Washington University in St. Louis as well as a variety of industry certifications.

Kara's career began in HVAC design and quickly evolved into the energy/commissioning sector. Through her 12 years of experience she has developed a passion for sustainability and the financial impact of energy projects. Through energy modeling and analyzing energy use and costs, Kara has a strong understanding of the operational, maintenance, and training effects on building systems. Kara holds a Master of Science degree in Business Management and a Bachelor of Science degree in Mechanical Engineering, both from Colorado State University in Fort Collins. She is also a LEED accredited professional and she sits on various energy-related advisory boards.

Session 2: Clark Waldram Grant Updates

Monday, October 13th – 1:30 p.m. – Walnut E

This session will provide an overview of the AZFA grants awarded this year for conservation projects.

Session 3: Sustainable Cleaning & A Healthy Workplace

Monday, October 13th – 2:15 p.m. – Walnut D

This session will discuss effective cleaning with sustainable products, with a focus on workplace wellness.

- **Jim Perez, Staples Facilities Solutions Technical Trainer, Staples Advantage**

Jim is a 25-year veteran in the cleaning industry and is a current ISSA CIMS-GB Cleaning Industry Standard Green Building, Industry Certified Expert (I.C.E.). He has professional experience in many different

facets of the cleaning industry, including working for chemical manufacturers, distributors and managing building service contractor companies. Jim has been a bilingual (Spanish) Facilities Solutions Technical Trainer for Staples since 2011 and his responsibilities include, but are not limited to, facilities sales training, development of new Staples facilities programs, and the enhancement of current training programs to meet the many varied needs of our customers. He has a particular passion for training customers on “green cleaning” as well as regulatory compliance, and has been fortunate to work with many nationally-known customers in this area.

Roundtable 1: Emergency Response

Monday, October 13th – 2:15 p.m. – Walnut E

Members of the Evansville Police Department will lead discussion of emergency response protocols in zoo and aquarium facilities.

Session 4: Designing and Building a Net Zero (Energy AND Water) Zoo Exhibit

Monday, October 13th – 3:15 p.m. – Walnut D

The Cincinnati Zoo just opened up their new Painted Dog Valley exhibit. Come hear the details on how it was built to have ZERO impact on the zoo’s utility budget. Shooting for the Living Building Challenge certification, it is the boldest, most aggressive sustainability effort the zoo has undertaken to date.

- **Mark Fisher, Vice President of Facilities, Planning and Sustainability, Cincinnati Zoo and Botanical Garden**

A product of the University of Cincinnati's Civil and Environmental Engineering program, Mark spent the first 11 years of his professional career working as a project manager for Turner Construction, a commercial construction company. Many of those years were spent at the Cincinnati Zoo, overseeing the construction of several major exhibits. In 2006, he came on board at the Zoo as the Senior Director of Facilities and Planning. In addition to the standard duties of a facilities manager, Mark is also the driving force behind the Zoo's sustainability movement. By implementing the most aggressive green building program in the nation, along with producing dramatic reductions in natural resource consumption, he has taken the Zoo from an organization that barely had a recycling program, to becoming the greenest Zoo in America. In 2014 Mark was promoted to Vice President of Facilities, Planning and Sustainability. Outside of work, Mark most enjoys scrambling around the mountains of the American West with his wife and three young children.

Workshop 1: Solvent Cementing and LXT Piping

Monday, October 13th – 3:15 p.m. – Walnut E

AND Wednesday, October 15th – 1:30 p.m. – Mesker Park Zoo Maintenance Shop

This presentation will offer a quick review of solvent cementing followed by discussion of low-extractable piping (LXT) used for ozone and valves. The Zoo Day session at the Maintenance Shop will provide opportunity for hands-on exposure and questions.

- **Michael Sass, Spears Manufacturing**

Michael has a Bachelor of Science from Southeast Missouri State University. He worked 15 years in the construction industry with his father’s company, Rayco Contracting, and has been with Spears Manufacturing for nine years as a Technical Service Representative.

Roundtable 2: Sustainability Reports

Monday, October 13th – 4:00 p.m. – Walnut D

The discussion will center around how easy it is to create your own institution's sustainability report and why it is important for your facility to have one that is updated annually. Examples and templates will be available and if you already have one, you're encouraged to bring it along to share with others.

- **Allmon Forrester, Director of Operations, John Ball Zoo**

Allmon has been in the zoo industry since 2000. Currently at the zoo he oversees the Facility Maintenance Department, Building and Grounds Department and all exhibit and building construction. Before his zoo life, he spent time in horticulture, site management and facilities management.

Workshop 2: Water Quality Testing

Monday, October 13th – 4:00 p.m. – Walnut E

Workshop 5: Air Quality Testing

Wednesday, October 15th – 10:00 a.m. – Amazonia Research Station

John will provide overviews of two parts of the Chicago Zoological Society's Environmental Quality Monitoring Program: water quality testing and indoor air quality testing. He will discuss the instrumentation and methods he uses to perform a variety of tests and how to interpret the results. John will also review a WQ spreadsheet calculator that he uses to easily perform calculations to resolve common WQ issues.

- **John Kanzia, Environmental Quality Manager, Brookfield Zoo**

John started his career as a Water Quality Lab Volunteer at the John G. Shedd Aquarium while attending college in the late 1990's. Shortly after that, he was hired as a part-time Water Quality Technician, and worked his way up to a full-time WQ Technologist III under Allen LaPointe, Shedd's Director of Environmental Quality. In 2006, John accepted the Environmental Quality Manager position with the Chicago Zoological Society's Brookfield Zoo. John has created a comprehensive monitoring program which utilizes over 30 different instruments used to monitor water quality, air quality, sound, and report information about animals and their environments.

Special Panel: History of AZFA

Tuesday, October 14th – 9:00 a.m. – Walnut A & B

Founding members of the AZFA (originally called AZMA) will provide insight into the formation and growth of the organization since the inaugural conference 20 years ago.

- **Bill Pawlecki, Terry Poag, Keith Schnell, and Dan Snyder**

Bill Pawlecki received his BSM and MBA from Toledo and worked the next 30 years as an engineer in the auto industry, rising from an Industrial Engineering trainee to an Internal Consulting Director at a large automotive supplier. He became the Director of Construction and Maintenance at his hometown Toledo Zoo in 1991. He joined the founding members of AZMA in 1993 and became the organization's first two-term president. Bill continues to support AZFA by attending and welcoming new members at the annual conference. He and his wife Diane will reach their 52nd wedding anniversary on November 10th. They have a daughter in Ann Arbor and a son in the Akron area and often travel in the three months of the year they don't spend enjoying retirement in Ft. Myers, Florida.

Keith Schnell began working at the Indianapolis Zoo during high school in 1973, always in the maintenance or construction field. He worked his way up to Director of Facilities until 2005, when he took a new position as Special Projects Coordinator/Manager. Keith attended the AZA Professional Management Development for Zoo & Aquarium Administrative Personnel and the Parks & Recreation Maintenance Management School by North Carolina State University. He was a founding member of AZFA and served as Treasurer from 1992 – 1994 and President from 1994 – 1995. Keith has also been involved in the local Knights of Columbus since 2002 and an officer for various stages from 2003 to 2010. He is married with two daughters and expecting his first grandchild in January. Keith’s hobbies include travelling, reading, biking, and outdoor activities.

Dan Snyder is the Director of Facilities Management for the Saint Louis Zoo. A graduate of Ranken Technical College in Industrial Electricity, he has over 38 years of service at the Saint Louis Zoo, where he started in 1975 as an electrician. He was promoted to Maintenance Supervisor after receiving his electrical license in 1977, then to Superintendent of Buildings and Grounds in 1987, and has held his current title for the past seven years. Dan is a founding member of AZFA, having served as the first Membership Chairperson and on the Board of Directors and various other committees since then. He is also active in several other organizations, such as the Electrical Board of Missouri and Illinois, IFMA, and the Saint Louis Culture Institutions Facilities Managers Group. Dan plans to retire in April of next year to travel and pursue his hobbies.

Workshop 3: Permit-Required Confined Spaces Entry Requirements

Tuesday, October 14th – 9:00 a.m. OR 1:00 p.m. – Walnut F

This will be a highly participative review of OSHA’s 1926.21 and 1910.145 requirements. The workshop will examine a photo of a typical permit-required confined space and ask the question, “What’s wrong with this picture?” Al will also answer your questions, such as, “What does OSHA mean by that statement?” Please note this workshop will be offered twice for class size of ~15 people each; sign-up sheets are available at the registration table.

- **Al Aerni, Safety Officer, Cincinnati Zoo & Botanic Garden**

Al has been the Safety Officer for the Cincinnati Zoo & Botanical Garden for five years. Prior to working at CZBG, Al was a Safety Director for Barrett Construction, which had 15 highway crews and two asphalt terminals. He has worked in Safety and as an HR manager for the Cincinnati Milacron machine tool company in their Aerospace and their Electronic Systems Divisions. Al is an authorized OSHA 10-Hour and 3-Hour trainer. He is a 22-year Navy veteran and a graduate of Ohio State University and Pepperdine University. Al is married, has two kids and three grandkids.

Session 5: Building a Biodiesel Plant at the San Antonio Zoo

Tuesday, October 14th – 9:45 a.m. – Walnut D

This presentation will show the construction of a new biodiesel facility at the San Antonio Zoo and discuss the process to make your own biodiesel.

- **Adam Malstaff, Maintenance Supervisor, San Antonio Zoo**

Adam started at the San Antonio Zoo as a Laborer over eight years ago and worked his way up to the Craftsman position within six months. In his current role as one of three supervisors, Adam is in charge of the train, carousel, and projects.

Session 6: Basic Life Support Systems – Their Components and Their Functions

Tuesday, October 14th – 9:45 a.m. – Walnut E

The presentation will be basic life support systems, covering the various components, their functions, and an overview on the why and how they might be used with aquatic exhibits. Session will include discussion on pumps, filters, fractionators, sterilizers, ozone and more.

- **Brian Brawner, Technical Sales Manager and Marine Biologist, R&B Aquatic Distribution, Inc.**

Brian is a co-founder of R&B Aquatic Distribution, Inc. and has been instrumental in its growth and success. Since its incorporation in 1998, Brian and the increasing number of R&B staff members have worked with designers and builders to help complete many aquatic construction and/or renovation projects for such entities as the Tennessee and Georgia Aquariums, Memphis and Indianapolis Zoos, public aquariums, and research facilities. Brian's personal work experience, extensive knowledge related to aquatic life support and recirculating systems, and dedication to providing a superior quality product have been key to the success of R&B. With a Bachelor of Science degree in Marine Biology from Texas A&M University and more than 25 years of experience in the aquatic and aquaculture industries, Brian manages the sales and technical advisory areas of the company. In addition to the satisfaction of successfully completing both small and large projects with his customers, Brian has enjoyed his affiliations with and continues to support the Texas Aquaculture Association, the United States Aquaculture Suppliers Association, and the Aquatic Animal Life Support Operators. He also served as a member of the Texas Parks and Wildlife Exotic Species Task Force and the Texas Chapter of the American Fisheries Society. Past experience includes time in a fiberglass manufacturing plant, six years on an experimental indoor fish farm doing high density aquaculture, and three years on a small tropical fish farm and distribution business.

Roundtable 3: Starting Energy Conservation – The Low-Hanging Fruit Approach

Tuesday, October 14th – 10:45 a.m. – Walnut D

This roundtable discussion will focus on the smaller and less expensive projects that save energy but can be accomplished without a lot of resources. This will cater to helping a person realize you can save energy without the large up-front cost.

- **Andy Peterson, Point Defiance Zoo & Aquarium**

Andy has been in the Electrical trade for over forty years. He has been working at the Point Defiance Zoo and Aquarium since 1989. He enjoys being able to design projects that take into account saving both energy and resources. He finds the zoo world simultaneously exciting and challenging.

Session 7: Zoo Fire and Life Safety

Tuesday, October 14th – 10:45 a.m. – Walnut E

The presentation will highlight some of the unique fire protection and life safety challenges zoos present in protecting animals. The challenges are caused by potential animal stresses, animal tampering, and trying to ensure an effective shelter-in-place approach to minimize our collection losses.

- **Ajay Gulati, P.E. – Fire Protection Engineer, Smithsonian Institution National Zoological Park**

Ajay graduated from the University of Maryland with a Bachelor of Science Degree in Fire Protection Engineering. He has been working for the Smithsonian Institution with responsibilities for the National Zoo fire protection and life safety program for 11 years. Prior to joining the Smithsonian, he worked for a fire protection consulting firm for six years.

Roundtable 4: Energy Benchmarking – Is It Important to the Zoo & Aquarium Industry?

Tuesday, October 14th – 1:00 p.m. – Walnut D

This roundtable will discuss energy benchmarking and how important it can be to understanding where we are as an industry in the areas of energy (electricity and natural gas) and water usage. We will discuss Energy Star Portfolio Manager and the category for Energy Star most of us fit into. We will examine if there should be an Energy Star category for zoos and aquariums and talk about understanding your energy market and finding out what services are available to you. As a starting point we will talk about an Energy and Water Survey that AZFA is involved in and how your information can greatly help us move these efforts along.

- **Bob Wengel, VP Facilities, Shedd Aquarium**

Bob has been with Shedd Aquarium since 1995 and is currently the Vice President of Facilities. His responsibilities include managing the Maintenance, Operations, Environmental Services, and Safety and Security departments and the administration of 20 maintenance service contracts that include elevator, chiller and fire system testing and maintenance, roofing and tuck pointing, and landscaping services. Bob was named the 2012 Facility Executive of the Year by Today's Facility Manager, a leading specialized trade publication for the nation's top corporate facility executives in all industry and service sectors. In 2002 and 2003 he attended the American Association of Aquariums and Zoological Parks Zoo Schools.

Bob attended Moraine Valley Community College and graduated from Lewis University with certification as a FAA licensed aircraft mechanic. He currently lives in Lockport with his wife and two daughters.

Session 8: Tracking Time and Utilities - You Can't Manage What You Don't Know

Tuesday, October 14th – 1:00 pm – Walnut E

This discussion will explore the options—both high tech and low tech—available to us to track the commodities that occupy most of our budgets and that seem to be out of our control: time and utilities. Once those activities can be measured and tracked, we will look at ways to use them to our advantage to manage our operations. Example spreadsheets will be available so you can customize your own reports.

- **Allmon Forrester, Director of Operations, John Ball Zoo**

Session 9: LED Lighting for Zoo & Aquarium Exhibits

Tuesday, October 14th – 1:45 p.m. – Walnut D

Discussion will focus on the benefits of LED lighting versus existing HID and fluorescent lighting commonly used in commercial exhibits. Topics will include energy efficiency, electrical savings, form factors, and installation considerations. The presentation will include video and photography of numerous exhibits before and after LED retrofits.

- **Bob Burhans, Commercial Sales, Ecoxotic, Inc.**

During Bob' 30 year public aquarium career he was involved in all phases of husbandry, collections, and life support. He held the position of Aquarium Curator at both the Birch Aquarium at Scripps and SeaLife Carlsbad. Bob joined the Ecoxotic commercial sales team last year. His previous aquarium experience is very helpful in working with facilities and husbandry staff on LED lighting upgrades.

Roundtable 5: AZA Accreditation

Tuesday, October 14th – 1:45 p.m. – Walnut E

This session will provide insight from two institutions that recently experienced the AZA accreditation inspection and review process. Discussion will include examples of items likely to be flagged by inspectors and offer suggestions for keeping your institution inspection-ready all the time.

- **Sam Peterson, Managerial Assistant, San Antonio Zoo and Rudy Castaneda, Facility Maintenance Superintendent, El Paso Zoo**

Sam has been an assistant for the Living Collections and Operations departments at the San Antonio Zoo since 2001. Prior to graduation from Trinity University that year, she grew up working summers and weekends at the Zoo as a keeper, summer camp counselor, receptionist, and membership/ticketing clerk. Sam currently chairs the Zoo's Green Team and sits on the Safety Committee.

Rudy has been employed by the City of El Paso for 23 years and has worked at the El Paso Zoo for the past four. He began his career at the El Paso Water Utilities as a Mechanic before moving to the Mass Transit Department as a Mechanic II. Rudy then became a Facilities Supervisor at the General Services Department followed by promotion to his current position at the Zoo.

Session 10: Performance Package Delivery Method for Zoo Exhibit Projects

Tuesday, October 14th – 2:30 p.m. – Walnut D

Performance Package delivery method has been increasingly used for highly-specialized zoo exhibit components, like acrylic and glass viewing panels, containment fences and gates, aviary mesh structures and more. They require careful planning and pre-engineering to meet zoo expectations. We will discuss benefits, risks and accumulated experience with this delivery method.

- **Mariusz Bleszynski, AIA, ASCE, LEED A.P., PGAV Destinations**

Mariusz is an architect and industrial designer focusing on zoological exhibit design since 2004. He graduated from university in Poland, practiced naval architecture in Finland and architectural design in Canada prior to joining PGAV in 1994, where he initially led design teams working on themed entertainment and aquatic projects. In addition to multiple Themed Environment Association (TEA) awards, Mariusz's recent projects, Glacier Run at Louisville Zoo and Sea Lion Sound at St. Louis Zoo, won AZA design awards.

Session 11: Smart Source Your Buildings – Waterproofing Simplified

Tuesday, October 14th – 2:30 p.m. – Walnut E

The discussion will focus on how the Smart Source program can help you manage and simplify all of your building exterior waterproofing needs. Products and services offered under the Smart Source Program.

- **Ron Neely, Regional Manager, Garland/DBS**

Ron has been with Garland since 1999. He was a Technical Manager for seven years focusing on roofing and waterproofing projects. Ron now represents Design Build Solutions as a Regional Manager. Design Build Solutions is the General Construction arm of Garland. His role is providing turnkey solutions for clients on all building envelope projects ranging from roofing to exterior waterproofing. Ron is the contact for all AZA Smart Source projects.

Session 12: Natural Filtration

Tuesday, October 14th – 3:30 p.m. – Walnut D

This presentation will provide an overview of Mesker Park Zoo & Botanic Garden's work, over the last 15 years, to install landscape and exhibit features to improve water quality and reduce soil loss on our hilly site. The discussion will cover projects ranging from bioswales to rain gardens as well as challenges met while maintaining them.

- **Paul Bouseman, Botanical Curator, Mesker Park Zoo & Botanic Garden**

Paul began his career in zoological horticulture at Mesker Park in 1994. He serves on the board of AZH and also chairs the Education Committee. Paul is a member of AZA, the Holly Society of America, and the Indiana Native Plant and Wildflower Society.

Session 13: Variable Frequency Drive Basics

Tuesday, October 14th – 3:30 p.m. – Walnut E

This discussion will revolve around the basic construction of a VFD, how they actually control a motor, why you would want to use a VFD and a few common installation concerns. The conversation will be a very open and friendly dialog between instructor and attendee.

- **Larry Stanley, Regional Engineer – Water, ABB Drives**

Larry was raised and educated in the coal fields of rural West Virginia, earning a BSEET degree from Bluefield State College. He has more than 30 years of experience working with all aspects of design, application, and installation of AC drives and soft-starts. Larry developed and maintained the drive support group for a major manufacturer from 1985 to 1997. He moved into a Senior Field Engineer's role in 1997, and since then, supports applications including commercial, municipal, hot ladle, distribution conveyance, food and beverage, and more.

Session 14: Building Amazonia

Tuesday, October 14th – 4:15 p.m. – Walnut D

This presentation will explore the design and construction of Amazonia: Forest of Riches, the largest and most spectacular exhibit to open in the zoo's 80-year history. The 10,000 square-foot facility took five years of planning and construction and cost \$13 million.

- **Erik Beck, Director of Operations, Mesker Park Zoo & Botanic Garden**

Erik started his career as a zookeeper at Mesker Park in 1995 and has since held the positions of Animal Curator and General Curator. In the daily operations he serves as project manager for all major capital projects and planning. Erik is also the population manager for the North American population of Owl Monkeys.

Session 15: Understanding the Health Risks of Bulk Soap

Tuesday, October 14th – 4:15 p.m. – Walnut E

GOJO is a science-based company that invests in research and data collection to continually innovate skin hygiene solutions through a sustainability lens. This presentation will focus on recent research and data

regarding the risks of bulk soap contamination and its impact on public health. It will include discussion of health risks applicable specifically to zoos and aquarium animals, visitors and employees.

- **Suzanne Andrew, National Account Director, GOJO Industries, Inc.**

Suzanne is a 20-year veteran in the JanSan industry, 15 of which have been spent with GOJO Industries. She's had the privilege of helping numerous organizations find healthy, safe and cost-efficient solutions to their unique skin hygiene requirements. Suzanne is also GOJO's champion for the AZA Smart Source program, and has used her extensive product and market expertise to develop the portfolio of products and programs specifically for the zoo and aquarium field.

Workshop 4: Welding

Wednesday, October 15th – 10:00 a.m. to 12:00 p.m. – Maintenance Shop

Participants in this hands-on workshop will first learn the basic techniques of welding, followed by a demonstration of local hand-galvanizing to preserve the joint.

- **Frank Guidry, Metal Fabricator, Woodland Park Zoo**

Certified welder Frank Guidry has been with the Woodland Park Zoo for almost 10 years. He has 40 years of metal fabrication experience with both commercial and Navy disciplines.

Workshop 6: Spartan Tool Demonstration

Wednesday, October 15th – 1:30 p.m. – Maintenance Shop

Spartan Tools representative Eric Boonstra will be available for a Q&A session and to demonstrate various tools.

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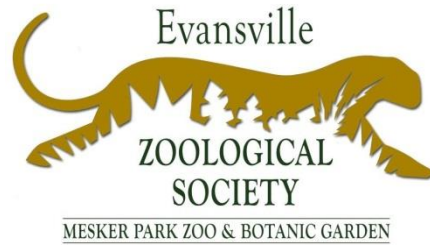
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GENERAL INFORMATION

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AZFA Conference Coordinator – Mesker Park Zoo and Botanic Garden

Dave Voegel, Facilities Manager
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The registration and information booth will be available daily during conference proceedings in the atrium and pre-function area of the Tropicana Walnut Building. Mesker Park Zoo staff and volunteers will be happy to assist you throughout the week.

Please wear your name badge throughout the conference as your pass for all conference proceedings, transportation, events and activities.

All group transportation will depart from and return to the Tropicana. Conference attendees should meet in the lobby by the First Street entrance for attendance before boarding the buses.

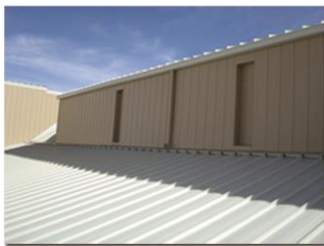
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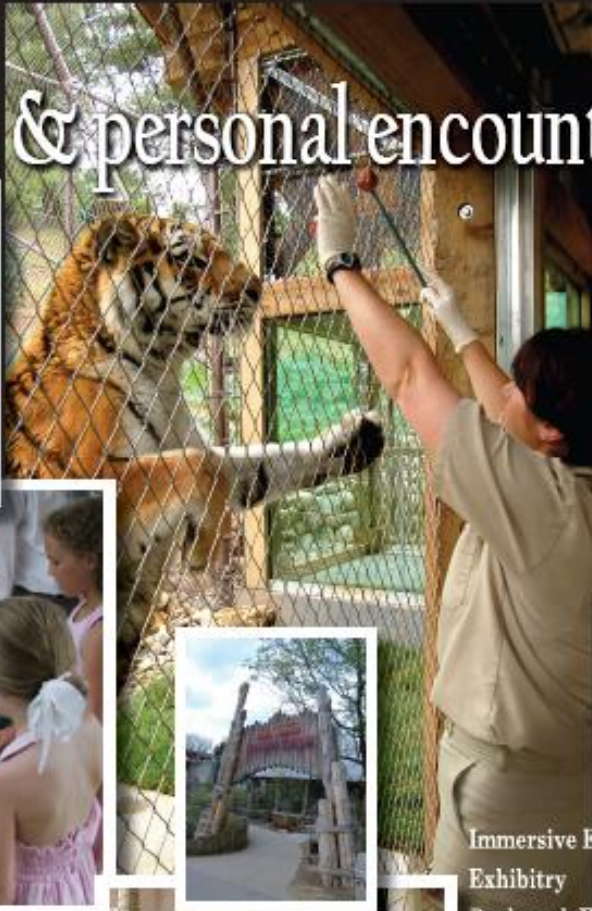
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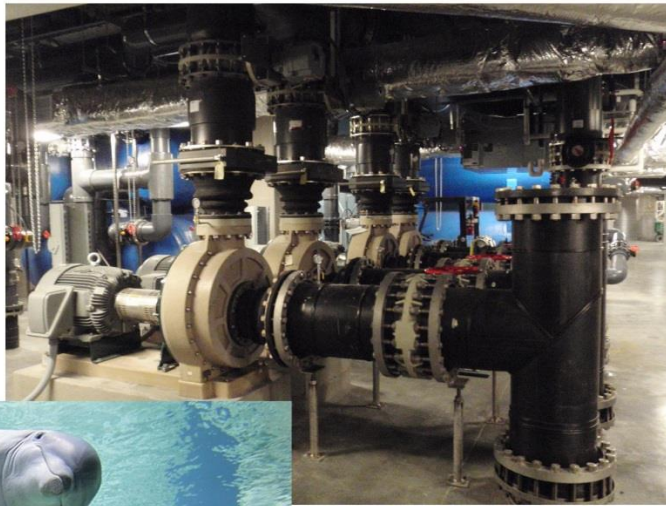
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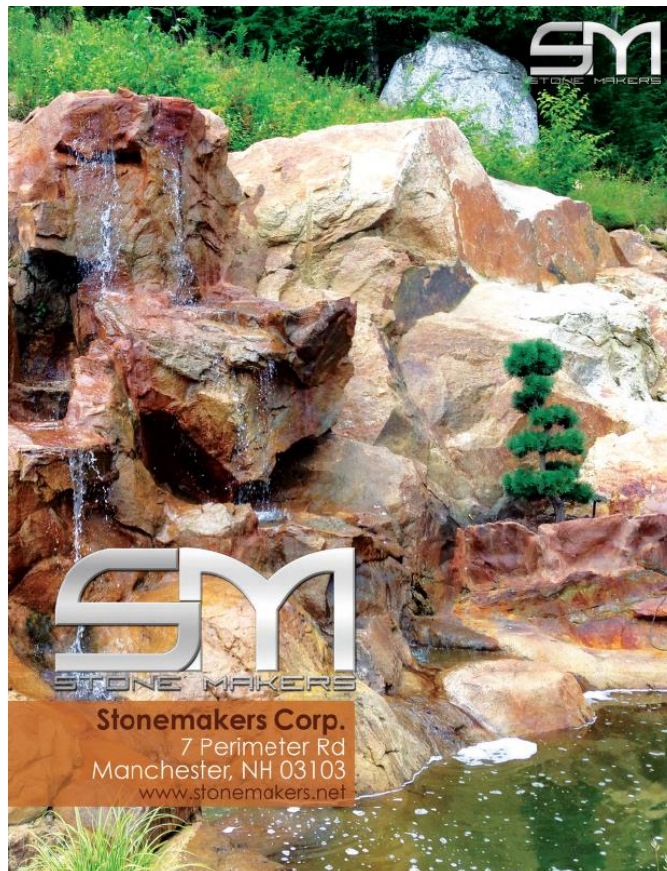
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