

# Columbus Engineer

# Franklin County Chapter

A chapter chartered by the Ohio Society of Professional Engineers.

P.O. Box 69

Reynoldsburg, OH 43068-0069

April 2024 Vol. 82 No. 6

# President's Message

Mehrdad Rowhani, P.E.

– FCC President

The MATHCOUNTS State Competition was held on March 16 at Columbus State Community College. The top 4 students will progress to the National Competition. Science Day also took place at Columbus State



Community College on March 16, and 3 selected students received OSPE-FCC awards. Congratulations to the winners!

Our continuing professional development (CPD) program will be presented on April 4, by Michiel Brongers on the topic "Integrity Management for Oil and Gas Pipeline Systems". We encourage all of you to join our CPD programs.

The FCC Nominating Committee has nominated candidates to be on the ballot to serve as officers for 2024-2025 fiscal year. Please refer to the ballot presented in this newsletter and participate in the election by casting your votes. The results will be announced to the members via email and will be presented in the May publication of Columbus Engineer.

I would like to thank you all for supporting our programs and encourage you to check and renew your NSPE/OSPE membership and update your contact information as needed.

Mehrdad Rowhani, PE, PMP OSPE-FCC President





# OSPE-FCC April Luncheon Program

Date: Thursday, April 4, 2024

**Place:** Hickory House

550 Officecenter Pl., Gahanna, OH 43230

**Time:** Registration: 11:30 am

**Lunch:** 11:50 am **Speaker:** 12:00 pm

**Closing Remarks:** 1:00 pm

**Cost:** Members: \$25.00 & Non-Members: \$35.00.

SPE@OSU Students: \$10.00

**Registration:** Visit www.fccospe.org. Register online with debit/credit card, pay by check or cash at the door. No access to a computer, contact Steve Day, at 614-876-7525, to help with registration.

Title: "Integrity Management for Oil and Gas Pipeline Systems"

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### April Luncheon, continued -

**Abstract:** The diligent pursuit of assuring the mechanical integrity of pipelines carrying hazardous liquids or gases is of critical importance for safe operations. The consequences of failure can be very significant, affecting not only the financial burden of repairing assets, but also impacting the safety of people nearby, or environmental impacts ranging from oil spills to the release of greenhouse gases. Therefore, material degradation threats such as internal or external corrosion, pressure cycle fatigue, welding issues, third party damage, and other degradation mechanisms need to be managed actively. The professional field of "Integrity Management" uses the combined knowledge of materials and fabrication, periodic inspections, pressure testing, risk assessment, failure root cause analysis, and operational factors. This presentation will highlight the efforts taken by engineers to prevent pipeline leaks and ruptures, showing a variety of issues through example cases. Some of the Code, Standards and Regulations used to manage pipeline integrity will also be discussed.

## **Learning objectives:**

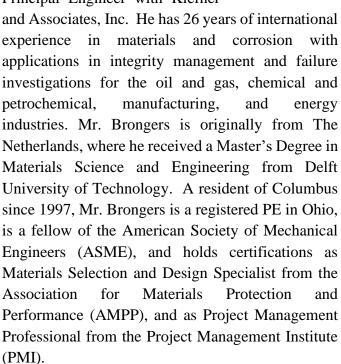
- 1. Recognize and describe various material degradation mechanisms, including internal and external corrosion, pressure cycle fatigue, welding issues, and third-party damage, that pose threats to pipeline integrity.
- 2. Explain the importance of periodic inspections, pressure testing, risk assessment, and failure root cause analysis in maintaining pipeline integrity.
- 3. Interpret and apply key provisions of codes and standards to ensure compliance with safety, environmental, and operational requirements.

Presenter: Michiel P. Brongers, PE, PMP, Fellow

**ASME** 

Michiel.Brongers@kiefner.com www.kiefner.com

**Biography:** Michiel Brongers is a Principal Engineer with Kiefner



A certificate for 1 hour of Professional Development for attending the program will be emailed to the attendee





# Ohio MATHCOUNTS State Competition

Tina Sutermeister, P.E.

The state level OHIO MATHCOUNTS Competition was held on Saturday, March 16<sup>th</sup> at Columbus State Community College. MATHCOUNTS is the premiere mathematics competition for sixth, seventh, and eighth grade students. The test questions are at the High School level or even at the first year of college level. The top Four individuals advance to the National Competition in Washington, D.C. on May 12-14<sup>th</sup> and compete against the top four students from all the States as well as the District of Columbia, Puerto Rico, US Virgin Islands and Guam as well as overseas Department of Defense and State Department Schools.

In Ohio, 171 local level finalists, which included 25 school teams of 4 students and 71 students competing

as individuals. These students have been working since the beginning of the Academic year for their chance at the State title. FCC-OSPE is pleased to see 2 of our local students in the top four students that will be representing Ohio at the National Competition. In FIRST place is Arush Krisp from Olentangy Shanahan Middle School. This is Arush's second year in a row where he made the team from Ohio that advanced to the National Competition. Arush's Coach at Olentangy Shanahan Middle School is Kristen Blattler. In THIRD place is Henry Lu from Dublin Grizzell Middle School. Henry's Coach at Dublin Grizzell Middle School is Emma Dalby. The other two students who advanced to the National Competition on the Ohio team are Second Place: Samuel Joo of Solon Middle School and Fourth Place: Arvan Agarwal of Harmon Middle School.

At the State Competition on March 16<sup>th</sup>, the top 6 teams received trophies. The following FCC-OSPE area schools were recognized. In Fifth Place, Olentangy Shanahan Middle School and in Sixth Place, Dublin Karrer Middle School.

FCC-OSPE was also represented well in the Unofficial COUNTDOWN ROUND Competition as the Winner of the CountDown Round was Henry Lu of Dublin Grizzell Middle School. The other trophy winners of the Countdown Round were: Second Place: Leon Du of Revere Middle School, Third Place Winner: Shriraman Prabhakaran a Non-School Competitor from Jackson Memorial Middle School and Fourth Place Winner: William Hu of Solon Middle School.

In Ohio, the MATHCOUNTS program is sponsored by the Engineers Foundation of Ohio and NSPE-OH: Ohio Society of Professional Engineers.



# 2024 District Science Day Report

The 2024 District 7 (Central District) Science Day was held at Columbus State Community College on Saturday, March 16. FCC-OSPE volunteer judges, Mehrdad Rowhani, Zach Wedekind, Sugru Yahaya and Baba Yahaya, judged a total of nine projects for the FCC-OSPE Sponsored Awards and the winners were:

Place	Name	Grade	School	Project Title
1st	Bharath Ramanujam	9	Dublin Jerome High School	Leveraging Machine Learning to Decipher Key Characteristics of Successful Coaches
2nd	Alexa Fischer	7	Phoenix Middle School	Soap Box Derby: When Milliseconds Count
3rd	Elliot Brooks	7	Our Lady of Perpetual Help School	Does Wing Shape Affect Lift?

The winners were each awarded a certificate and a check of \$150 for 1st place, \$100 for 2nd place, and \$50 for 3rd place.









# FRANKLIN COUNTY CHAPTER OHIO SOCIETY OF PROFESSIONAL ENGINEERS BALLOT FOR ELECTION OF OFFICERS 2024-2025

2023-2024 Previously Elected Positions (In 2<sup>nd</sup> Year of two-year term)

**PEG Trustee** C.R. Weaver, PE City of Columbus **PEHE Trustees**Tim McCarthy, PE
S. Rao Chitikela, PhD,

PE RC-WEE Solutions, LLC. PEPP Trustee Nathan Abele, PE S&ME, Inc. Retired Engineers Trustee Bob Fuller, PE Young Engineers Trustee
Zach Wedekind, PE
Kimley-Horn and Associates,
Inc.

#### **BALLOT**

(Please Check or Write-In Selection)

President	(vote	for 1)
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S. Rao Chitikela, PhD, PE *RC-WEE Solutions, LLC*.

#### Vice-President/President Elect (vote for one)

Derek Kiss, PE

Civil & Environmental Consultants, Inc.

#### Vice-President (vote for one)

Eric Bates, PE Nederveld, Inc.

#### Chapter Secretary (vote for 1)

Zach Wedekind, PE
Kimley-Horn and Associates, Inc.

#### **Chapter Treasurer**

L. Steve Day, PE, FNSPE Day Engineering, LLC.

#### **Trustees**

(Members may vote in each Practice and Special Division per Bylaw IX – the term is two years unless otherwise noted)

#### **PEC Trustee**

Ken Goodson, PE, HFDP, LEED AP *IMEG Corp*.

#### **PEI Trustee**

Richard Smelker, PE *AEP*, *Inc*.

#### **PEPP Trustee**

Greg Nortz, PE
Otisco Engineering, Ltd..

NSPE-OH HANKLIN COUNTY CHAPTER OHIO SOCIETY OF PROFESSIONAL ENGINEERS	
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#### VALIDATE YOUR BALLOT

Please Sign (or Type) Your Name to Validate Ballot

Click Submit Form Button to email form:

Or print and Return to:

ms consultants, inc.

2221 Schrock Road Columbus, OH 43229 Attention: Joe Sullivan

Or Email to: jsullivan@msconsultants.com

Ballots must be postmarked by March 31st, 2024

#### S. Rao Chitikela, PhD, PE, PEng, BCEE, F.ASCE



Rao holds a PhD in Civil Engineering from the University of Delaware (DE), and has a 30-yr work experience encompassing the government, industry, and academia. He is an independent consultant and instructor. Dr. Chitikela has published and proven expertise on: municipal water/energy-infrastructure updating; drinking water quality; drinking water and wastewater processing; water-reuse; air and water modeling; fossil-fuel & renewable energy systems and energy auditing; air pollution control; and, environmental (air/water/waste) permitting, auditing, and compliance verification. He is a registered professional engineer in a few States and, AB-Canada; and, an AAEES-Board certified

environmental engineer (BCEE) in the Water Supply & Wastewater (*currently*, Chair of the committee), Air Pollution Control, and Environmental Sustainability specialties. Rao has successfully supported municipal performance assurance water-energy infrastructure projects, and led the Renewable Energy Technologies and Water Infrastructure book-publication. Dr. Chitikela is an elected ASCE-fellow and a Senior-Member IEEE.

Derek Kiss, PE – Derek is a skilled civil engineer with over 8 years of experience designing site civil design projects,



public and private utilities, roadway improvements, private commercial site design, institutional utility projects, public infrastructure condition assessment / rehabilitation, feasibility studies, floodplain management studies, large diameter sewer studies, construction administration, construction inspection, construction field testing, and City Engineer support Services.

Derek supports CEC's engineering efforts for capital improvement projects for various communities. He is an experienced engineer familiar with sound engineering practices related to a variety of public infrastructure projects. He has designed and developed construction plans

and specifications for roadway improvements, sanitary and storm sewer improvements, pump station improvements, and water distribution system improvements, among others. Mr. Kiss has also performed engineering design calculations, construction cost estimates, data collection, construction management, construction inspection, and field testing of equipment. He has a variety of different engineering experiences ranging from preliminary investigations and studies through construction closeout, providing him a unique perspective of all the various aspects of a project.

Education: B.S., Civil Engineering, The Ohio State

University

Eric Bates, PE, CIE, - Eric has 29 years of experience as a Mechanical Engineer in a variety of industries. He has



been involved in the design and manufacture of heavy equipment, military vehicles, automobiles, home appliances and industrial tooling/equipment. Eric is currently a Forensic Engineer working out of the Columbus office for Nederveld, Inc. In this role Eric is involved in the investigation of mechanical failures, building pathology, collision analysis, and origin/cause investigations for water and fire incidents. In addition to NSPE, Eric is a member of the Society for Automotive Engineers, the National Association of Fire Investigators, and the Indoor Air Quality Association. He received his initial PE registration in Kentucky in 2000, and along with Ohio has additional registrations in multiple states. Eric is also a Certified Indoor Environmentalist. He received his BSME from Ohio State in 1995 and currently lives in Marysville, OH with his family.

Zach Wedekind, PE – Mr. Wedekind has 5 years of experience as a Civil Engineering Consultant, with a focus on



Roadway and Transportation Projects. He is a meticulous and resourceful quality-focused engineer striving to provide the best products for his clients. Zach currently works for Kimley-Horn on their Transportation Team as a Roadway and Drainage Design Lead.

He has been the lead designer on projects that include new roadways, roadway rehabilitations, roadway widenings, turn lane additions, roundabout rehabilitations, new roundabouts, and intersection improvements. Zach's experience includes roadway geometrics, storm sewer design, roadside drainage design, ODOT BMP design, cross section/corridor modeling, and utility design.

Professional Credentials Bachelor of Science, Civil Engineering, Ohio State University Professional Engineer in Ohio

L. Steve Day, PE, FNSPE, - Steve currently serves as the Treasurer for the Franklin County Chapter. He is the past



President of the Ohio Society of Professional Engineer's; and was also named Ohio's delegate to the National Society of Professional Engineers' House of Delegates. With a bachelor-of science degree in mechanical engineering from The Ohio State University, Day is the owner of Day Engineering, LLC, which provides building engineering design for mechanical, electrical and plumbing systems. Previously, he worked as a senior project engineer with Lehman Construction, Inc., and he has held a number of positions with Medex, Inc. He served in the U.S. Navy from 1971 to 1977. A member of the Franklin County Chapter, Day has also served as the master of ceremonies for the semi-annual Ohio Engineering Certificate Ceremony, which is sponsored by OSPE. He was the 2011 recipient of OSPE's Meritorious Service

Award and the 2015 recipient of OSPE's Uncommon Engineer Award. Day is also a past president of the Engineers Foundation of Ohio. He chaired the EFO 50th Anniversary Committee in honor of the Foundation's Golden Anniversary, June 2014. Day currently serves as chair of the EFO Benefit Golf Outing and Fund-Raising Committees, as well as a key volunteer for the Imagine Engineering program for second graders. Day resides in Hilliard with his wife Pat.

#### **PEC Trustee:**



**Ken Goodson, PE, LEEP AP, HFDP,** - Ken is a mechanical engineer with over 30 years of experience in mechanical design, serving as a Senior Mechanical Engineer for IMEG, mainly in Healthcare. His project responsibilities include Client interface and documentation, Design Concept management, Project Manager Support, facilitation of inquiries, and workflow assistance and schedule support, as well as Construction Administration. During his tenure, Ken has had the opportunity to be a project manager on several influential healthcare projects around the State of Ohio including University of Cincinnati Hospital 8th Floor, the Neuroscience Tower at Riverside, the Springfield Regional Medical Center, the Dublin Methodist Hospital, and the McConnell Heart Care Center at Riverside Methodist Hospital.

Ken Has recently been the Field Project Executive for a number of Healthcare projects and other projects in South Carolina, as well as being deeply involved with Healthcare inspection with the Department of Veteran Affairs nationwide; and higher educational projects; performing multiple facility renovations at Central State University. As part of the IMEG team, Ken uses his skills and experience to coordinate the flow of project construction documentation from conception to completion.

#### **PEI Trustee:**



**Richard Smelker, PE** – Richard is a graduate of The Ohio State University, a Registered Professional Engineer in the State of Ohio. He has worked in Transmission Planning at American Electric Power since 1980. He has been an active member in the Franklin County Chapter for many years and has served as the Practice Division Trustee for Professional Engineers in Industry for the Ohio Society of Professional Engineers for many years as well.

#### **PEPP Trustee:**



**Gregory J. (Greg) Nortz, P.E. -** Greg Nortz is one of two founding Co-Owners of Otisco Engineering Ltd., with engineering responsibility for mechanical, plumbing, and hydraulic system designs. Greg's tenure as a mechanical designer and contractor brings a wealth of experience in many facets of design, estimating, working drawings, and specifications.

His hands-on management of construction projects helps to meet owners' expectations. When he worked in contracting, Greg successfully managed and/or implemented more than 50 building HVAC system installations.

Greg's experience also includes research, development, and/or design of pressure sensors, flow meters, temperature sensors, vibration and seismic control systems, microchip handling systems, and more. His designs include a pressure sensor to measure the liquid aviators' breathing oxygen (LOX) levels in aerospace ground-support applications, a patented sanitary Coriolis mass flowmeter, and a temperature sensor for the Active Thermal Control System (ATCS) on the International Space Station.

Greg received his Bachelor of Mechanical Engineering degree from Cleveland State University and his Master of Business Administration from Clemson University. He is a registered engineer in eight states including Ohio, Kentucky, Virginia, North Carolina, South Carolina, Georgia, and Florida.

# Be sure to cast your vote!









#### 2024 CALENDAR

DATE	TIME	DESCRIPTION
Jan. 4	12:00 p.m.	CPD Program: Title: No Program
Jan. 5	5:00 p.m.	Deadline for January Columbus Engineer
Jan. 9	5:45 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Jan. 12	5:00 p.m.	Deadline for February Columbus Engineer
Feb. 1	12:00 p.m.	CPD Program: No Program
Feb. 9	5:00 p.m.	Deadline for March Columbus Engineer
Feb. 10	8:00 a.m.	Regional MathCounts Competition @ CSCC
Feb. 13	5:45 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Feb. 18 – 24		National Engineer's Week
Feb. 22	11:30 a.m.	Program: E-Week Luncheon – Location: TBD – Theme: TBD
Mar. 7	12:00 p.m.	CPD Program: Title: Post-Construction Best Management Practices (BMPs)
		Presenter: Ashlee Balcerzak
Mar. 14-15		Engineer's Leadership Institute - Virtual
Mar. 8	5:00 p.m.	Deadline for April Columbus Engineer
Mar. 16	8:15 a.m. – 4:00 p.m.	Ohio MathCounts Competition @ Columbus State (OSPE, see
		www.ohioengineer.com)
Mar. 12	5:45 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Mar. 22	12:00 p.m.	OSPE Lunchtime Legislative Briefing, Zoom meeting
Mar. TBD		District Science Day @ CSCC
Apr. 4	12:00 p.m.	CPD Program: Title: Integrity Management for Oil and Gas Pipeline Systems
		Presenter: Michiel P. Brongers, PE
Apr. 9	5:45 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Apr. 12	5:00 p.m.	Deadline for May Columbus Engineer
Apr. TBD		Legislative Day
May 2	12:00 p.m.	CPD Program: Title - Presenter:
May 10	12:00 p.m.	Deadline for June Columbus Engineer
May 14	5:45 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
May 22	6:30 p.m.	Chapter Officer Installation & Awards Dinner
June 6	12:00 p.m.	CPD Program: Title – Presenter:
June 11	5:45 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
June 14	5:00 p.m.	Deadline for July Columbus Engineer
June 28	12:00 p.m.	OSPE Lunchtime Legislative Briefing, Zoom meeting
July TBD	(TBA)	FCC Budget Meeting - Location to be announced

Civil & Environmental Consultants, Inc. Address: 250 Old Wilson Bridge Road, Suite 250, Worthington, Ohio 43085

## WHERE DO I GET MORE INFORMATION?

FCC-OSPE President E-mail & Phone:	mehrdadrowhanipe@gmail.com	(773) 517-1036
FCC-OSPE WEBSITE	www.fccospe.org	
OSPE WEBSITE:	www.ohioengineer.com	
NSPE WEBSITE:	www.nspe.org	
To volunteer to help with MATHCOUNTS:	benjamin_brown68@yahoo.com	(614) 519-8978
To volunteer to help with Science Day:	baba.yahaya@terracon.com	(614) 328-5209
To volunteer to help with OSU Student Chapter:	tim_mccarthy@breezelineohio.net	(614) 670-1175
To volunteer to help with Imagine Engineering:	TBD	
FCC Luncheons / Programs:	ddoherty@cecinc.com	(614) 359-6321
New Members / Membership Application	www.nspe.org or www.ohioengineer.com	(614) 223-1144



## 2022-2023 OFFICERS, TRUSTEES & COMMITTEE CHAIRS

	Name	Phone # (w) or (h)	Cell Phone #	E-mail Address
esident	Mehrdad Rowhani, PE, PMP	614-389-4132 (w)	773-517-1036 (cell)	mehrdadrowhanipe@gmail.com
ce President	Eric Bates, PE		614-674-3441 (cell)	ebates1019@gmail.com
ce President	S. Rao Chitikela, PE	614-818-4900 (w)	412-310-9452 (cell)	srao.chitikela@gmail.com
napter Secretary	Derek Kiss, PE	614-468-6212 (w)	412-310-3432 (CCII)	dkiss@cecinc.com
reasurer	Steve Day, PE	614-876-7525 (w)	614-531-2858 (cell)	Iday1@columbus.rr.com
ast President	Nathan Abele, PE	614-793-2226 (w)	614-746-7243 (cell)	Nabele@smeinc.com
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SPE Executive Director	Tim Schaffer	614-223-1144 (w)		exec@ohioengineer.com
SPE/EFO Staff	Pam McClure (ret., part-time)	614-223-1144 (w-OSPE)		admin@ohioengineer.com
	Holly Ross	614-223-1177 (w-EFO)		pr@ohioengineer.com
	JoAnn Finke (part-time)	614-223-1144 (w-OSPE)		admin@ohioengineer.com
VICE-PRESIDENT	TRUSTEE/COMMITTEE	CHAIRPERSON	TELEPHONE	E-MAIL
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	Programs/CPD/Activity	Dustin Doherty, PE,	614-310-2075 (w)	ddoherty@cecinc.com
		CPESC	614-359-6321 (cell)	
	Membership	Dustin Doherty, PE,	614-310-2075 (w)	ddoherty@cecinc.com
		CPESC	614-359-6321 (cell)	
	Young Engineer Trustee	TBD		
	Retired Engineers Trustee	Bob Fuller, P.E.	614-880-9221 (h)	barbarafuller6438@att.net
	PEHE Trustee	Tim McCarthy, PE	614-670-1175 (cell)	tim mccarthy@breezelineohio.net
		S. Rao Chitikela, PE	412-310-9452 (cell)	srao.chitikela@gmail.com
	OSU - Student Chapter Liason	TBD		
	Science Day (District)	Baba Yahaya, PE	614-328-5209 (w)	Baba.Yahaya2@terracon.com
			614-517-7864 (cell)	
	Scholarship	Joe Sullivan, PE	614-486-4383 (w)	jsullivan@msconsultants.com
			614-561-5447 (cell)	
	Columbus Engineer - Editor	Howard Jones, PE	614-209-3289 (cell)	hrjones63@yahoo.com
	Engineers Week	CR Weaver, PE	614-645-7100 (w)	CRWeaver@columbus.gov
	Engineer For A Day	TBD		
	PEG Trustee	CR Weaver, PE	614-645-7100 (w)	CRWeaver@columbus.gov
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			614-818-4900 (w)	
	MATHCOUNTS Chair	Ben Brown, PE	614-519-8978 (cell)	ben.brown@ibigroup.com
	Ad-/Git-ti	T: O-1	044 507 7000 / '''	
	Awards/Citations	Tina Sutermeister, PE	614-537-7660 (cell)	tlsuterm@embargmail.com
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	Imagine Engineering Contest	Tim McCarthy, PE	614-670-1175 (cell)	tim_mccarthy@breezelineohio.net
	Auxiliary Trustee	TBD		
	Auxiliary i lusiee	I DD		
	OSPE Director	Baba Yahaya, PE	614-328-5209 (w)	Baba.Yahaya2@terracon.com
	Constitution & By-Laws	Tina Sutermeister, PE	614-537-7660 (cell)	tlsuterm@embargmail.com
		Baba Yahaya, PE	614-328-5209 (w)	Baba.Yahaya2@terracon.com
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	PEPP Trustee	Greg Nortz, PE	614-790-0029 (cell)	gregnortz@otiscoengineering.com
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	LEFF HUSIEE	I valian Abele, PE	614-746-7243 (cell)	
	PEC Trustee	Ken Goodson, PE		kengoodson@hotmail.com
	MAIREU HUSIEE	rren Goodson, PE	614-443-1178 (w)	rkengoogson@notmail.com



#### **FIBST CLASS**

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