

FLASH

The Electrical Board of Missouri and Illinois

OFFICERS

Phil Jacquot

Chairman of the Board
Guarantee Electrical

Lacey Bernard

1st Vice Chairman
The Okonite Co.

Jeff Stoyanov

2nd Vice Chairman
Vector Electrical Sales

Kurt Schulz, Treasurer

Eaton's Crouse-Hinds Division

BOARD OF DIRECTORS

Mark Barthel

Springfield Electric Supply

John Barud

Ameren Illinois

Bob Benson

Benson Electric Co.

Joe Burbridge

Leviton Manufacturing

Greg Fowler

J. F. Electric

Jim Heisserer

Ross & Baruzzini

Rick Hill

St. Louis County

Bob Kaemmerlen

Kaemmerlen Electric

Ken Keeney

Pyramid Electrical Contractors

Mike Kelsch

French Gerleman

Bill Kuempel

Butler Supply

Steve McElroy

Graybar Electric

Bob Peat

RJP Electric

Jim Porter

Cape Electrical Supply

Mike Smith

Schaeffer Electric

Cathi Tennant

Frost Supply

Daryl Vander Weerd

Eaton Corporation

Jeff Wahl

Cummins Sales and Service

Dave Wakeman

Ameren

Dennis Weisenborn

Ameren

Phil Wentz

McClure Engineering

Vol. 108 No. 3

MARCH 10, 2017



SPONSORED BY



After months of planning the Expo is HERE!!!

We thank all the industry associates that have worked on the various committees in developing the activities associated with the Electrical Expo. It has been a pleasure working with each committee as they went about their tasks assigned to them and in some cases bringing new ideas for us to consider, i.e an Expo Mobile App.

These last few weeks, we ask all EBMI members to encourage their co-workers and customers to attend the Expo. The exhibit area is a **SELL-OUT**, we have over 90 new products submitted, the seminar attendance is going very well and if you attend, the Show Promotion committee has a drawing for 4 - \$50 gift cards EACH HOUR - \$2,600 in gift cards. But you have to attend and register in the lobby area to be eligible for prizes.

WHY NOT JOIN IN ON THE FUN!!!

REPORT OF NOMINATING COMMITTEE

Dennis Weisenborn, Chair of the 2016-17 Nominating Committee is pleased to report on the nominees for The Electrical Board of Missouri and Illinois' Officers and Board of Directors for 2017-18.

The Nominating committee consisting of Dennis Weisenborn, Jim Heisserer, Greg Fowler, Kurt Schulz and Bill Regan selected and confirmed the following individuals for positions on the Board of Directors.

2017-18 Electrical Board Officers nominated

Chairman of the Board - Lacey Bernard
1st Vice Chairman – Jeff Stoyanov
2nd Vice Chairman - Bill Kuempel
Treasurer – Kurt Schulz

Board members nominated for re-election

Mark Barthel	Mike Kelsch
Bob Benson	Jim Porter
Joe Burbridge	

Leaving the Board this year

Daryl VanderWeerd did not accept re-nomination and **Greg Fowler** has fulfilled his 3 years as an EBMI officer and 3 years as a past chair on the Board.

Added to Board

Ron Black of Ameren, **Tom Bush** of Eaton and **Craig Schild** of Sachs Electric have been nominated for the Board of Directors.

Board members not up for election

John Barud	Mike Smith
Rick Hill	Cathi Tennant
Bob Kaemmerlen	Jeff Wahl
Ken Keeney	Dave Wakeman
Steve McElroy	Phil Wentz
Bob Peat	

Last three prior Chairs

Phil Jacquot, Jim Heisserer and Dennis Weisenborn

"Strive not to be a success, but
rather to be of value."
-Albert Einstein

IN MEMORIAM

The Electrical Board officers and staff express our sincere condolences to **Don Green**, retired from United Electric Supply whose wife Diane passed away on February 16th.

CALENDAR OF EVENTS

See calendar on www.electricalboard.org

MARCH 21-22 ELECTRICAL EXPO St. Charles Convention Center

April 18th WEB Bosses Nite

April 25th EBMI Golf League Starts at Forest Park
Looking for a two-some to join the league
Call Bill at 636-305-6434 for more info

May 3rd EBMI Night at the Cards Game
(We have 188 members and guests attending)

June 5th SPORTSMAN'S HOLIDAY
at Forest Park Golf Course

Call EBMI at 636-305-6434 for more information or to register for any of these events or visit our website at www.electricalboard.org.

2017 EXPO EXHIBITORS

We have been **SOLD OUT** for some time now and have turned away 5 manufacturers that wanted to exhibit.

To see a list of exhibitors and booth #'s, you can use link below...

<http://www.electricalboard.org/2017-expo-exhibitors-list/>

or search our Expo mobile app for the listing of exhibitors with booth #'s.

Exhibitors: All Registrations for booth personnel will take place at the show. Exhibitor badges can be pick up near registration on Monday or Tuesday.



OVER 1,700 PEOPLE PRE-REGISTERED FOR THE ELECTRICAL EXPO. Badges are in the mail to those who pre-registered.

We still have a ways to go to reach our goal of 3,000. Please help us by encouraging customers and co-workers to attend.

IT IS FREE TO ATTEND THE EXPO!!!

Only on-site registrations are available at this time. If you did not pre-register, you will now register at the Expo on March 21st or 22nd. (To save time, complete an expo ticket or seminar form in advance and bring with you).

**** To assure a spot in the IAEE Code Conference on Wednesday, March 22nd, we recommend that you register and pay for the Code Conference on Tuesday, March 21st. At past Expos, we have turned away registrants on Wednesday because we were sold out.**

**NO PHONE REGISTRATIONS
ACCEPTED!**

WWW.ELECTRICALBOARD.ORG

TECHNOLOGY PARTNERS

We thank Ameren, Eaton and J.F. Electric for supporting our efforts to develop an Expo mobile app which will feature many of the main aspects of the show.

We recognize our exclusive sponsor, Ameren, the technology partners above, our distributor partners and the Step Forward Participants on the Expo mobile app. There is also a list of exhibitors and their booth #'s, activity schedule for both days, along with name and bios of our seminar speakers. A booth layout is included in this app.

Go to your app store and search for...

EBMI EXPO 2017

The app is a useful tool to preview the show and also while you attend the show.

**WI-FI AVAILABLE THROUGHOUT THE
CONVENTION CENTER.**

For the first time since the Expo has been held at the St. Charles Convention Center, we will have Wi-Fi available to attendees and exhibitors. In addition, there are some charging stations around the convention center where you can charge your phone.

We thank the Technology partners for helping us make this happen for Expo 2017.

**At Convention Center
Wi-Fi Network name – EBMI2017
Password – EBMIexpo17**

EXPO SEMINAR UPDATE ...

Our Expo seminars have always played an important role in building attendance at past Expos. The Seminar Committee chaired by Keith Cooper and Jim Heisserer has once again put together an array of topics that has attracted a large number of industry associates. As you can see below, the seminars will be well attended. We have shortened the titles to save space.

Sem. 1 – NFPA 70E	234
Sem. 2 - Life after 12.500 Volts!!!	141
Sem. 3 – 2030: Preview of Energy Sources	162
Sem. 4 – Grounding of Elec. Systems	289
Sem. 5 – Elec. Equip. Preventative Mtse.	153
Sem. 6 – Plant Cyber Security	72
Sem. 7 – Impact of BAS Technology	182
Sem. 8 – Generators	285
Sem. 9 – Challenges in the Age of LED	282
Sem. 10 – life after 12,500 Volts!!!	57
Sem. 11 – Building Codes/IECC	213
IAEI Code Conference**	328

Anyone wishing to attend these seminars can purchase ticket at the show on March 21st and 22nd.**

2-Day - \$190 /

1-day Tuesday (Sem. 1-7) - \$150

1-day Wednesday (Sem. 8-11) - \$150

Code Conference - \$275

BRING A BUSLOAD OF ASSOCIATES AND CUSTOMERS TO THE EXPO!!!

We thank the following companies that will be bringing customers to the show on a bus or van. We appreciate your time and effort to organize these trips to the Expo.

Butler Supply- Van from Farmington
Bus from Fulton/Columbia
Bus from Washington

Cape Electrical Supply – Bus from Farmington
CED/ Philips & Co. – Van from Jefferson City
French Gerleman – Van from Quincy
Frost Supply – 2 Vans from Collinsville
Van from Columbia

We thank the following speakers that have spent time preparing for their presentations.

- Sem. 1 - Wes Wheeler**, National Electrical Contractors Association (NECA)
Sem. 2 and 10 – Gary and Jeanne Norland, Gary Norland Safety Presentations
Sem. 3 – Steve Kidwell, Ameren
Sem. 4 – Keith Cooper, McClure Engineering
Sem. 5 – Andy Schadt, Mallinckrodt
Jay Ellington, CDG Engineers
Pat McEvoy, CDG Engineers
Sem. 6 – David Moye, Forensic IT, Inc.
Sem. 7 – Chris Pelton, Siemens Industry
Sem. 8 – Brad Fryjoff, Fabick Power Systems
Earnest Glaser, Cummins Sales and Service
Frank Kurz, CK Power
Nick Paolo, MTU Onsite Energy
Frank Ryan, Mikes Inc.
Rick Slavens, Generac Power Systems
Chuck Wentzel, Gateway Industrial Power
Sem. 9 – Richard Fisher, Randy Burkett Ltg. Design
Sem. 11 – Joe Moore, City of Maryland Heights
Kaitlin Page, BSA Life Structures

- Code Conf. - Keith Lofland**, International Association of Electrical Inspectors (IAEI)
Code panel – Rick Hill, St. Louis County
John Stacey, City of St. Louis

New Convention Center exit off I-70

Going west into St. Charles

Take I-70 to Convention Center Blvd., Exit 229A. At stop light, make a left turn and go over I-70. After the next stoplight, head into the roundabout left lane and go half way around roundabout to the road alongside the St. Charles Convention Center. FREE parking is in the back of the convention center.

Going east into St. Charles

Take I-70 to Convention Center Blvd., exit, 229A. At stop light, make a right turn and head into the roundabout, using left lane, and go half way around roundabout to the road alongside the St. Charles Convention Center. FREE parking is in back of the convention center.

ATTENDANCE PRIZE DRAWINGS AT THE EXPO

There are several ways for **ATTENDEES** to win a gift card by attending the Expo. Exhibitor personnel are NOT eligible to win these gift cards.

OUR DISTRIBUTOR PARTNERS (see below)

encouraged attendees to pre-register before March 1st. Those who pre-registered before March 1st **AND** attend the Expo will be in a drawing for one of the **36 - \$50 gift cards**. After the show, the EBMI will draw the winners and assign a winner to each of our distributor partners who will then present the \$50 gift card to each winner.

- Anixter
- Butler Supply
- Cape Electrical Supply
- Centrex Electrical Supply Corp.
- Fletcher-Reinhardt Company
 - French Gerleman
 - Frost Supply
- Graybar Electric Company
- Holt Electrical Supplies
- Metro Electric Supply
 - Rexel
- Springfield Electric Supply Co.

THE SHOW PROMOTION SUB-COMMITTEE

organized an hourly drawing during the 2-day event. The sign-in table for this hourly drawing will be in the lobby area. The earlier you sign in, the more opportunities that day you have to win. Tuesday's entries will not be used in Wednesday's drawing. If you are attending both days, you **MUST** sign up both days.

Each hour of the show, a drawing will be held for four \$50 gift cards. (First drawing at 2 pm on Tuesday and 11:00 am on Wednesday). The winners will be listed on a board at the table and notified through our Expo mobile app. You can also stop by the table to see if you won. We will NOT announce the winners over the PA system. A person can only win one prize during the 2-day event. If someone wins on Tuesday, they have until the end of the show on Wednesday to claim their gift card. **THE WINNER MUST BE PRESENT TO CLAIM THEIR GIFT CARD BY 5:15 PM ON MARCH 22nd – NO EXCEPTIONS.**

Photo ID will be required to claim prize and only given to the winner. There are **13 hours of show time - \$2,600 of gift cards** in the attendance prize drawings.

ASK THE ELECTRICAL INSPECTORS

MARCH 21ST ONLY

From 2 – 6 PM

Table near Booth 604

Rick Hill - St. Louis County (2-4 pm)

Rick Heyman - City of St. Louis (4-6 pm)

Bring your CODE questions to them.

NEW MEMBER

We **WELCOME** the following new members who joined the Electrical Board. We encourage them to get involved on Electrical Board committees and participate at our events.

NEW CORPORATE MEMBER COMPANY

303rd ENGINEERING GROUP

Rep: Charles (Chip) Fiedler

1935 Arsenal St.

St. Louis, MO 63118

314-541-3382

www.303engineering.com

MEISTER INTERNATIONAL, LLC.

Rep: Mark Meister

P. O. Box 338

Ross, OH 45061

513-923-2712

www.meisterintl.com

QUOTE

The productivity of a work group seems to depend on how the group members see their own goals in relation to the goals of the organization.

- Ken Blanchard

POSITIONS AVAILABLE

1117 – Mechanical/Electrical Design Technician -

Kuhlmann *design* Group, Inc. (www.kdginc.com), a growing, vibrant Architectural, Design & Engineering firm has exciting opportunities for a talented Mechanical/Electrical Design Technician. Experience working in the Commercial, Retail, and Hospitality industries a plus. Visit the employment page of our website for requirements and application information. EEO Employer W/M/Vet/Disabled

1217 – ELECTRICAL ENGINEERING MANAGER

Peoria, IL (open to our Normal, IL or Champaign, IL office locations)

Qualified candidates must be proven leaders with solid technical experience in the preparation of MEP construction drawings, specifications, submittals and construction administration. The ability to build a team, develop and mentor staff, collaborate with other disciplines, establish and maintain budgets, and work in partnership with leadership throughout the entire Company is essential for this opportunity. Design aspects include lighting and lighting controls, HVAC systems and power distribution systems applicable to commercial, governmental, healthcare, higher education, retail and industrial facilities. A working knowledge of the integration of fire alarm, voice/data, and mechanical controls into building systems is also essential.

Please Apply Online by clicking on the link below

<http://newton.newtonsoftware.com/career/JobIntroduction.action?id=8a3b93ee4aebc807014af4eefb977a9e&source=Electricalboard.org>

1317 – ELECTRICAL ENGINEER – PROJECT MANAGER Peoria, IL (open to our Normal, IL or Champaign, IL office locations)

We have an immediate opening for an Electrical Engineer within our Facilities Science and Technology team in our Peoria, Normal or Champaign, IL office. This key position will serve as a project manager for the local electrical engineering team supporting local and nationwide clients.

Qualified candidates must have solid technical experience with the preparation of electrical construction drawings, specifications, submittals and construction administration. The ability to develop and mentor staff, collaborate with other disciplines, establish and maintain budgets, and work in partnership with leadership throughout the Company is essential. Job duties include managing projects and providing quality assurance for lighting, power systems, fire alarm, communications and data. Project types will involve commercial, governmental, healthcare, educational and industrial facilities.

Please Apply Online by clicking on the link below

<http://newton.newtonsoftware.com/career/JobIntroduction.action?id=8a7880ec54e116070154f38d4e664910&source=Electricalboard.org>

or visit the Farnsworth Group website at www.f-w.com and click on the careers link. Farnsworth Group, Inc. is proud to be an EEO/AA employer M/F/D/V.

2117 – SR. ELECTRICAL ENGINEER – Ambitech Engineering is searching for an ambitious Sr. Electrical Engineer to join our Team in Maryland Heights, Missouri. Please log on to www.ambitech.com to apply.

Responsibilities: The position requires the candidate to work as part of a project team in the execution of electrical projects. These projects include brownfield, greenfield, retrofit, or debottlenecking / expansion in oil and gas, petrochemical, specialty chemical, biofuels, renewable energy, pharmaceutical, and the food/beverage industry. The Electrical Sr. Engineer will lead electrical design efforts for industrial clients.

Qualifications: Technical expertise in power distribution design and details for industrial projects. Knowledge of NFPA 497/499 is a plus. Candidate should have small/medium capital project experience in a lead role for Electrical (power) engineering design. Proven track record in leading team of electrical engineers and designers, but with also a solid history of technical expertise in power supply and distribution.

Years of experience: 15+ Years of experience; **Education:** BSEE or Higher; **Certifications:** PE is Strongly Preferred; **Software:** SKM, CADD familiarity, but not a must.



EBMI GOLF LEAGUE

We are starting our 21st year of the EBMI golf league and have an opening for a twosome to participate. The league plays at Forest Park Golf courses on Tuesday evenings and starts on April 25th for 16 weeks. The cost for a two-some is \$850 for all 16 weeks. There can be a number of individuals filling this two-some, we just want two people to show up each week.

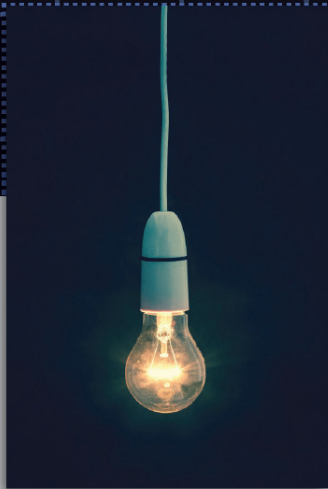
Tee-times start at 4:15 pm and go through 5:20 pm. We use a two – pay system, so your first half is \$425 and 2nd half is \$425.

If interested, please call Bill Regan at 636-305-6434.

There are ideas

and there are those who

INNOVATE



Visit our booth at Electrical Expo to see three NEW products that offer the latest technological innovations:

- excitation - power density
- protection - distance
- genset control - total system performance

BOOTH 920/922 at ELECTRICAL EXPO

March 21-22, 2017 • St. Charles MO

Basler Electric
World Headquarters
Highland, Illinois, USA
Tel: +618.654.2341



www.basler.com

Suzhou, PR, China
Tel: +86.512.8227.2888
chinainfo@basler.com

Singapore
Tel: +65.6844.6445
singaporeinfo@basler.com

Custom transformers ▪ Voltage regulators ▪ Genset controls ▪ Excitation systems ▪ Protective relay systems ▪ Plastic components

Basler solutions throughout your **ELECTRIC UTILITY**

Multifunction Protection Systems

BE1-11 utility-grade multifunction protection system

- Generator, feeder, intertie, transformer, bus and motor applications
- Reliable microprocessor-based protection and control
- Easy setup and monitoring with intuitive settings, preprogrammed logic and extensive reporting and metering
- Complete generator protection
- Providing utility-grade systems for more



Voltage Regulators

AVC and DECS families

- Digital and analog technology for generator applications
- Auto-tuning capabilities
- Integrated Automatic Synchronizer
- Easy user interface for maximum efficiency and integration



Digital Genset Controllers

DGC family

- Genset control, metering and protection
- Provides mains fail - auto start capabilities
- Open and closed transition with soft load/unload
- For paralleled and stand-alone generators
- Full control system with communication capabilities



Power Isolation Transformers

Custom and standard

- Intermediate/large power through 2800 kVA
- Application-specific design capabilities: numerous termination, mounting and thermal schemes



Excitation Control Systems

DECS family for synchronous generators and motors

- Integrated Power System Stabilizer
- Real-time monitoring and sequence of events recording
- Easy-to-use built-in test capabilities with Dynamic System Analyzer
- Redundant controller options
- Drawout bridge rectifier design for easier maintenance
- Various control modes for specific applications



Engine Controllers

IEM family

- Extremely flexible, microprocessor-based engine control, metering and protection
- Features are fully customizable to meet



Basler Electric is a privately-held corporation with worldwide headquarters in Highland, Illinois, since 1943. Additional facilities are located in Taylor, Texas, USA; Suzhou, China; and Singapore. Basler's global presence helps us to identify the needs of specific markets and applications.

Through adherence to the structured continuous improvement goals of ISO standards, we provide quality products and services to meet our customers' requirements.



Highland, IL USA Suzhou, China
Taylor, TX USA Basler Plastics, LLC



See your local sales representative or learn more at www.basler.com.

FLASH SPONSORS

ero

Electrical Representative Organization
 Who reps that line? No more guessing!
 Search for reps by manufacturer at
www.ero.stl.com



ELCO

Chip Alexander
 Commercial Fleet Manager
 1510 Manchester Rd
 Ballwin, MO 63011
 636-227-5333
 Direct: 636-207-2164
 Cell: 314-392-3558
 Fax: 636-227-9454
www.elcochevroletcadillac.com
calexander@elcochevroletcadillac.com



CKIPower

Your complete source of engine and generator power.
 Distributor of: **KOHLER**
314-868-8620
www.ckpower.com

ELECTRO SAVINGS
 CREDIT UNION

Business Accounts & Loans For Your Company
 Personal Accounts & Loans For You & Your Employees
 Free Financial Education Seminars
 Call Pat Pettey: (314) 434-6470 x1406
www.ElectroSavings.com

BUTLER
SUPPLY

WBENC CERTIFIED
 26 LOCATIONS IN MO & IL
 LARGE STOCKING INVENTORY
 LIGHTING & GEAR SPECIALISTS ON STAFF

ELECTRICAL PLUMBING VOICE & DATA



ButlerSupply.com



LIGHTING ASSOCIATES
 INCORPORATED
www.laiweb.net



featuring

LIEBERT THERMAL MANAGEMENT

Electronic Support Systems
 314-739-6400 or www.elecsupport.com



Scherry Engineering and CONSULTING, Inc.
 D. Edwin Scherry, P.E.

PO Box 440362
 St. Louis, MO 63144
 314-803-2531
scherryengineering@swbell.net
<http://www.scherryengineering.com>

Medium and Low Voltage Power Design | Arc Flash Hazard Investigation
 Analytical Analysis | Short Circuit Evaluation | Protective Device Coordination

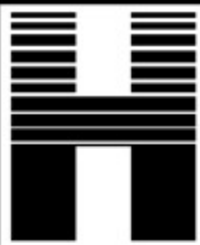
Construction Equipment, Lifts, and Light Plant Rental.



800.845.9188
www.fabickcat.com

FEDERATED INSURANCE

CALL COLE WADDELL
316-617-7880



HOLT
 ELECTRICAL
 SUPPLIES
 SERVING THE INDUSTRY
 SINCE 1960

Generator Sales, Service, & Rental.



800.845.9180
www.fabickcat.com

Cummins Power
 Generation

SERVICE • SALES • RENTAL
636-660-7696

SIEMENS

Siemens Industry, Inc.
 11612 Lilburn Park Road
 St. Louis, MO 63146

CAPE GIRARDEAU BRANCH – COMING SOON!



2002 N. Kingshighway St.
 Cape Girardeau, MO 63701
 573.475.7575



HOLT
 ELECTRICAL
 SUPPLIES
www.holtelectricalsupplies.com



HOLT
 energy
 314.880.8745
www.theholtenergy.com



HOLT
 LIGHTING
 DEPOT
 314.533.2227
www.holtlightingdepot.com

St. Louis - Headquarters, Holt Energy and Holt Lighting Depot
 1943 S. Vandeventer | St. Louis, MO 63110
 P: 314.533.5555 F: 314.533.2205

Arnold, MO
 540 Jeffco Blvd.
 Arnold, MO 63010
 P: 314.714.1714
 F: 314.714.1715

Fenton, MO
 1702 Chase Drive
 Fenton, MO 63026
 P: 636.680.0000
 F: 844.783.4392

O'Fallon, MO
 1718 West Terra Lane
 O'Fallon, MO 63366
 P: 636.321.2300
 F: 636.321.2301

Washington, MO
 1852 Highway A
 Washington, MO 63090
 P: 636.231.6969
 F: 636.231.6601

GIP GATEWAY
 INDUSTRIAL POWER, INC.

GENERATORS & TRANSFER SWITCHES
 ~ Sales ~ Service ~ Rental ~
 Planned Maintenance



www.gipower.com 888-865-8675

CONGRATULATIONS TO...

Don Harrod of Springfield Electric Supply and **Bill Klaus** of Ameren Illinois on being named the 2016 recipients of the Michael A. Postiglione Award. Don and Bill served as co-chairs for the Ameren Illinois-EBMI Task Force since October 2011 and have guided this Task Force that organizes the programs offered in the Illinois region. Bill recently gave up the co-chair position to Brian Cuffle of Ameren Illinois but remains an important member of the Task Force. Since they have worked together over the years, it is only fitting that we honor them together.

They will be recognized at a luncheon in May.

FLASH (ISSN 0746-6528) is published monthly by The Electrical Board of Missouri and Illinois 900 So. Highway Dr.- Fenton, MO for \$6.00 per year, which is included in dues. Periodicals postage paid at Fenton, MO and additional offices.

POSTMASTER: Send address changes to the FLASH, 900 S. Highway Dr. - Ste. 306 - Fenton, MO 63026.

EBMI endorses

Federated Insurance
For your insurance needs

Cole Waddle
316-617-7880

and
Heartland Payment
Systems

For your credit card
processing
CONTACT:
Chris Danner
314-599-2026