
POLISH-AMERICAN ENGINEERS ASSOCIATION

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All members and friends of Polish-American Engineers Association are cordially invited to attend our upcoming meeting.

DATE: **Friday, January 27th, 2012**

TIME: **7:30 p.m.**

LOCATION: **Copernicus Center**

Kings Hall

5216 W. Lawrence Avenue
Chicago, Illinois



**New
Location**

SPEAKER: **Michael Niedzinski MS MBA**

Director of Standardization USA
Product Dev Mgr Defense
Constellium LLC

TOPIC: **Selected applications of aluminum in transportation industry**

Mr. Michael Niedzinski's Biography



Michael Niedzinski and his team are responsible for transfer of aerospace and marine alloy technology from Europe to USA. He is providing a liaison function between Constellium ATI technology group, Aluminum Association, Aerospace Material Society and FAA/NASA groups. Michael is responsible for development of technical data and coordinating new applications in the Aerospace, Defense and Marine Industries. Working closely with Aerospace users and aluminum mills to provide analysis of potential commercial and defense aerospace applications, which facilitate implementation of a new generation of Al-Li metallic solutions. New products portfolio includes AMS and MMPDS documentation on a series of conventional 7XXX, 2XXX and Al-Li products developed by ALCAN Inc and previously by Reynolds Metals.

Michael received his BS and MS in Metallurgical Engineering from University of Illinois. Master's thesis was dedicated to fluid dynamics and chemical reactions in specialty steels melting. That was followed by MBA in Operations Management received from Illinois Institute of Technology Stuart School of Management

He is a member of ASM and AMS; Current Chair of ASTM's Marine Task Group and past Chair of ISG section of MMPDS which is FAA and Air Force sponsored Industrial Think Tank, vice chair of SCATR of Aluminum Association, member of ASTM. Mr. Niedzinski authored several papers which were published in Advanced Materials &Processes, Light Metals Age, and TMS and holds two patents in Al-Li technology.

His presentation will focus on several applications in the aerospace, marine and defense where aluminum's unique characteristics make it a unique choice over steels and other materials. Examples will include aircraft, space launchers, high speed marine vessels and wheeled and tracked Army vehicles.

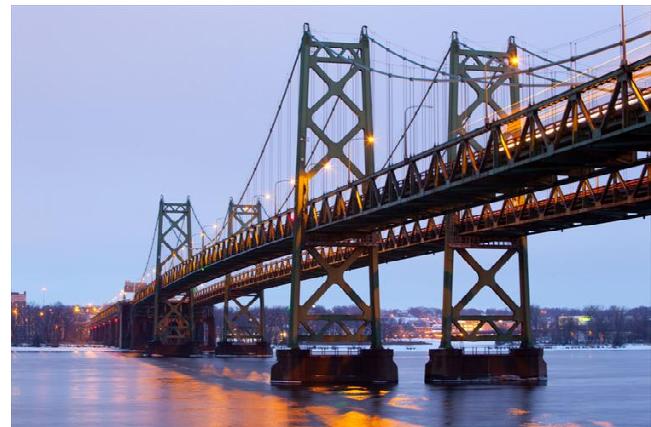
ADMINISTRATION UPDATES

On December 16th we departed from our routine administrative and technical session meeting. We have invited two renowned big game hunters and photographers, **Slawa and George Swiderski** owners of the Old World Gallery located in Palatine. During their multiple trips to Africa they accumulated very large number of trophies and full portfolio of magnificent photos of wildlife and scenery. They shared their experiences with us during the December meeting. Afterwards members and guests shared light refreshments and beverages and exchanged Holiday Greetings.

Society of Polish Engineers and Technicians in France is organizing a three day symposium in Paris France. Symposium which is sponsored by European Union and Polish embassy in France will be dedicated to flood prevention and mitigation. Symposium is scheduled to take place on March 28-29-30th 2012. More details and invitation are being provided via a separate email.

Rafal Kopacki advised us that Ralph Modjeski Bridge, which joins Iowa and Illinois near Moline, will be replaced by a new design.

The Iowa-Illinois Memorial Bridge was once the crown jewel of the I-74 Corridor, the gateway to the Quad Cities region. The bridge spans the Mississippi River and is a vital link to the seven-mile expanse comprised of bridges, interstates and communities. But times have changed, and recent economic successes in the Quad Cities region have led to ever-increasing traffic demands, outgrowing the corridor's existing infrastructure. Today, the Iowa-Illinois Bridge is a major pinch-point for delays between the bi-state communities linked by the I-74 Corridor – Moline, Illinois and Davenport, Iowa.





The Iowa and Illinois Departments of Transportation decided on an ambitious corridor improvement plan. The plan's ultimate goal: alleviate congestion and sustain the regional economies. There were several objectives, including an increase in roadway capacities and designs for new roadways and interchanges. Most notably, the strategy called for the design and engineering of a new I-74 Mississippi River Bridge to replace the existing Iowa-Illinois Memorial Bridge.

More information can be obtained on sites shown below:

<http://www.iowadot.gov/I74corridor/default.htm>

<http://www.modjeski.com/projects/detail.aspx?I-74-Mississippi>

We are happy to inform you that our biannual banquet, which took place on November 12th, yielded **\$2987 toward our Ralph Modjeski Scholarship Fund**. Thanks to the great generosity of our Members and Sympathizers we will continue to offer our annual scholarship. Thank You!

Reminder to all members and sympathizers. Ralph Modjeski **scholarship applications** should be turned in by qualified students of engineering by June 15th. We plan to award three scholarships this year.

Dr. Jan Plachta suggested a multi day bus trip to visit and **explore Bridges of Ralph Modjeski** . This trip could be scheduled in late spring of 2012. Itinerary, attractions and cost are provided below.

MOSTY RUDOLFA MODRZEJEWSKIEGO

Dzień 1 - Wyjazd z Chicago o godz 9 rano, około godziny 1 pm docieramy do Rock Island (170 mil od Chicago), gdzie przez godzinę podziwiamy historyczny **Government Bridge (2)**. Przejazd do następnego, pobliskiego **mostu pomiędzy Bettendorf a Moline (3)**, gdzie spędzamy dodatkowy czas do godziny 4-5 pm. Posiłek, przejazd na nocleg (100 mil) do Keokuk.

Dzień 2 - Wyjazd z hotelu po śniadaniu ok. godz. 8:30, krótki podjazd do **mostu Keokuk (4)**, gdzie spędzimy około półtorej godziny. Około 10 wyjazd w kierunku odległego o 130 mil Saint Louis, gdzie dotrzymy ok. godz. 12:30 w południe. Do godziny 2 po południu oglądamy most **McKinley Bridge (5)**, po czym jedziemy 110 mil do Thebes gdzie znajduje się kolejny **most kolejowy (6)** Rudolfa. W Thebes będziemy do godz. ok. 3:30 pm, a następnie przejedziemy (70 mil) oglądać **most w Metropolis (7)**. Wyjazd z Metropolis ok. godz. 7:30 pm, przejazd (120 mil) na nocleg do Evansville KY, gdzie dotrzymy ok. godz. 10 pm. Nocleg w Evansville.

Dzień 3 - Wyjazd z motelu o godz. 8 rano, na **most w Evansville (8)** przeznaczamy czas do godz. 9 rano, po czym jedziemy oglądać **most w Louisville (9)** w godz. 10:30-11:30. Po lunchu długi przejazd (450 mil) do Memphis TN na nocleg.

Dzień 4 - Po śniadaniu, w godz. 8:30 - 9:30 oglądamy **most kolejowy w Memphis (10)**. Dla zainteresowanych byłaby możliwość zwiedzenia muzeum Elvisa Preseleya, tzw. Graceland Mansion. Przejazd 400 mil do Nowego Orleanu, gdzie dojedziemy ok. godz. 5 po południu. **Most drogowo- kolejowy Huey P Long (10)** (5-6:30). O moscie tym prasa Nowego Orleanu pisala, ze byl "Cudem Techniki, Dzielem Sztuki". Reszta dnia poswiecimy na spacer, relaks i kolacje w zabytkowym Starym Mieście, nocleg w Slidell.

Dzień 5 - Cały dzień przeznaczamy na przejazd do Greensboro/Raleigh w Karolinie Północnej.

Dzień 6 - Po śniadaniu przejazd 300 mil do Waszyngtonu, zwiedzanie miasta w godz. 1- 4 pm, przejazd (140 mil) na nocleg do Filadelfii.

Dzień 7 - Od rana podziwiamy **most Benjamin Franklin (12)** w Filadelfii, ukończony w 1926 roku w 150. rocznicę Stanów Zjednoczonych. Przejedziemy również przez **most Tacony-Palmyra (13)**, oraz ciekawy lukowy most kamienny **poprzez**

Henry Avenue (14). O 10-tej ruszamy w stronę Nowego Jorku, a następnie wzdłuż rzeki Hudson, gdzie (2-3 pm) oglądamy **most Poughkeepsie (15)**. Nocleg w okolicach Niagary.

Dzień 8 - Przejazd (600 mil) do Chicago.

Propozycja terminu wycieczki: druga połowa Maja 2012

Cena wycieczki: \$1050 .

Cena obejmuje transport wg. programu mikrobusem (van) 15-osobowym, 7 noclegów w motelach standardu Super 8 i opiekę przewodnika. Cena nie obejmuje ubezpieczeń, posiłków ani biletów wstępu.

UWAGA: możliwe jest 2-dniowe przedłużenie wycieczki (jej cena wzrośnie do \$1350), połączone z dodatkowym zwiedzaniem Quebec City, Montrealu, Niagary i **mostu Modrzejewskiego w Detroit**.

Dzień 8 - Przejazd z noclegu w okolicach jeziora Champlain/Adirondac Upper NY do Quebec City, zwiedzanie **mostu (16)** Dolcia, o którym, pisano, że jest ósmym cudem świata. Nocleg w okolicy Trois Rivieres.

Dzień 9 - Zwiedzanie Montrealu, przejazd w okolice wodospadów Niagara, wieczorna panorama oświetlonych wodospadów, nocleg.

Dzień 10 - Całodniowy przejazd do Chicago połączony z podziwianiem ostatniego już na naszej trasie **mostu Modjeskiego (17) w Detroit/Windsor.**

Messieurs' Roman Korczak, Tad Hofkin. Miroslaw Noyszewski and Dr. Ron Wolosewicz held teleconferences at modernizing **By-laws and Constitution**. Another update is due in January.

P.A.E.A. MEMBERSHIP DUES. PAEA fiscal year began in January. **Please plan to pay your 2012 dues during the next meeting.** Dues remain unchanged for 2012 and are \$50 per year; senior citizens (over 65 years of age) and students \$25 per year. Questions? You may send an email to: paea.info@gmail.com

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