

February 2012



# The Engineers' Extra



P.O. Box 1268, Raleigh, NC 27602  
<http://www.raleighengineersclub.org>

The Raleigh Engineer's Club (REC) has been in existence since 1926. The club seeks to promote the Engineering field through monthly technical meetings and support of those pursuing a future in the Engineering discipline. Our members have a diverse background of engineering disciplines and represent several companies and government agencies located in the Raleigh area.

*Next Meeting: Monday, February 27, 2012*

**RSVP Requested**

## Upcoming February 27 Meeting Program - 11:30am



**Bamyan to Dushi Road,  
Bamyan and Baghlan  
Provinces, Afghanistan:**

with

**William Tillitt, P.E.  
Dean Hatfield, P.E.  
Richard Coffman, P.E.**

Louis Berger's Raleigh Office designed Segment 4 of the Bamyan to Dushi Road (40 km of a 160 km project) along the Surkhab River Valley. The proposed alignment utilized both new and existing locations through the extreme mountainous terrain.

Design issues included large cuts in rock, balance of earthwork, seasonal flooding from snowmelt, and concern for maintaining local irrigation channels. Seven new single span bridges ranging from 35 meter to 48 meters were designed for this segment while consideration of delivery and material availability were evaluated as the plans were advanced.

Berger began design work in January 2010 and delivered 100% contract documents to the Client, USAID, in October 2010.

**This meeting will provide 1 PDH credit.**

The lunch meeting will be held in the **Cardinal Club** (on the 28<sup>th</sup> floor of the Wells Fargo Building Downtown).

### Lunch

The cost of the Buffet lunch, including beverages, taxes and tip is **\$19** (desserts are \$4 extra) **Make every effort to be there at 11:30AM to sign in and get your badge.**

Remit your cash or check lunch payment to the Club Treasurer at the meeting. Checks are payable to the Raleigh Engineers' Club. **Note: Cardinal Club dress code requires business casual attire as a minimum (i.e. dress slacks, collared golf/polo shirt and dress shoes).**

### Downtown Parking

The most convenient parking deck is located on Wilmington Street across Fayetteville Street from the Wachovia Building. The deck is located between Hargett and Morgan Streets with entrance on the Wilmington Street side.

**RSVP Requested** Meeting organizers request that you notify us at least 2 business days in advance if you plan to attend a meeting to insure we have sufficient seating. **Please RSVP to: [secretary@raleighengineersclub.org](mailto:secretary@raleighengineersclub.org)** or contact one of the Club officers (listed in this newsletter).

.....

**January Meeting**

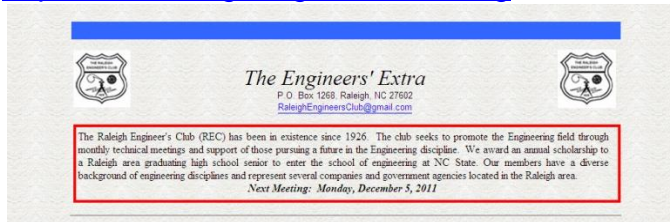


Paul Kizakevich presented at our January meeting on the development and evaluation of PHIT for Duty, a psychological health (PH) assessment and self-

help intervention (SHI). Using smartphones, the PHIT for Duty collects PH/PTSD symptom data, stressors, mood, behaviors, cognitive function, and physiological responses during daily life; then processes these data via an intelligent virtual advisor that recommends, tailors, and presents SHI advisories, such as stress relaxation, sleep hygiene, and cognitive support, for personalized risk reduction.

**Visit the Raleigh Engineers Club Website!**

The club has kicked off the beginnings of its website. Visit the site for upcoming meeting dates and for more information! Visit us at: <http://www.raleighengineersclub.org>



**Renew your membership!**

The Raleigh Engineer's club gives you the opportunity to meet and interact with active and retired engineers from the Raleigh area. Members and guests are employed with various businesses in the Raleigh area, which presents a good networking opportunity.

Our most important goal of the club is to provide scholarship support for a Wake County High School Senior who has been accepted into the field of engineering at N.C. State University. Scholarship winners have been awarded a check worth one semester of tuition at NCSU, now valued over \$2600, and it's unclear with tuition rises what the 2012-2013 tuition costs will be.

Your annual dues of \$35 are used to support costs associated with the monthly meetings such as presenter complimentary lunch, post office box rental, general club administrative fees and supplies needed for the annual scholarship award, and what's left over supports the scholarship.

I ask that you please renew your membership as soon as possible. In order to determine our budget for 2012 operations and scholarship funding, we would like to have your renewals and donations by April 1, 2012. Contact an officer for an application or email us at: [secretary@raleighengineersclub.org](mailto:secretary@raleighengineersclub.org) today! Or complete the renewal form and mail your check payable to the Raleigh Engineer's Club, P.O. Box 1268 Raleigh, NC 27602.

**Please consider donating to the scholarship fund. Remember, all of your donations go entirely to the scholarship fund.** We may qualify with many companies as a matching grants organization for those of you who have a matching employer. You may still make a **tax-deductible** donation to the scholarship fund even if you are not a regular member.

**2012 Club Officers:**  
 President: Bob Via 546-7487  
 President-Elect: Don Seay 755-2005  
 Secretary: Sarah Puffer 546-7661  
 Treasurer: Lisa Samples 859-4880x8471

**Director and Scholarships:**  
 Mike Anthony 546-5690

**Directors and Program Assistance:**  
 Lee Adams 546-6409  
 David Koepnick 546-7435  
 Terry Winebrenner 859-4880  
 Bryan Guy 546-4107

**Photographer:** Harvey Horne