

From: Robert E Nickell  
Sent: 11/10/2011 2:25:10 PM  
To: Fassett, Robert (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=RPF2); Yura, Jane (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=JKY1); MBermel@semprautilities.com (MBermel@semprautilities.com); sunil.shori@cpuc.ca.gov (sunil.shori@cpuc.ca.gov); 'Igor Paprotny' (igorpapa@eecs.berkeley.edu); jlane@semprautilities.com (jlane@semprautilities.com)  
Cc: 'Fernando Pina' (FPina@energy.state.ca.us); 'James Marean' (James.Marean@GASTECHNOLOGY.ORG); 'Paul Wright' (pwright@mc.berkeley.edu); 'Gaymond Yee' (Gaymond.Yee@uc-cicee.org); rwhite@eecs.berkeley.edu (rwhite@eecs.berkeley.edu)  
Bcc:  
Subject: RE: Welcome to the Project Advisory Committee for two natural gas pipeline projects (GTI and UCB)

Igor:

Thanks for passing along the information. Keep us posted on the timing of the first PAC meeting.

Bob Nickell

**From:** Igor Paprotny [mailto:igorpapa@eecs.berkeley.edu]  
**Sent:** Tuesday, November 08, 2011 3:21 PM  
**To:** RNickell@cox.net; RPF2@pge.com; JKY1@pge.com; MBermel@semprautilities.com; sunil.shori@cpuc.ca.gov; jlane@semprautilities.com  
**Cc:** 'James Marean'; 'Gaymond Yee'; 'Fernando Pina'; 'Paul Wright'; rwhite@eecs.berkeley.edu; 'Igor Paprotny'  
**Subject:** Welcome to the Project Advisory Committee for two natural gas pipeline projects (GTI and UCB)

Dear Members of the Natural Gas Pipeline Projects Advisory Committee;

We would like to thank each of you for volunteering to be part of two projects funded and administered by the California Energy Commission (CEC) each with the common goal of improving natural gas pipeline safety. You will each be a member of our newly formed Joint Project Advisory Committee (PAC) as approved by our CEC Administrator – Fernando Pina. We expect all the PAC meetings to be via conference call. At this point we have not established a firm schedule, we will address the frequency, duration and goals of the PAC during our first meeting.

To help orient you to the projects and prepare for our first meeting we have provided a high level summary of each project below as well as attached a technical scope-of-work that will explain the overall objective and provide a description of the tasks for each project.

**Project 1 :** The Gas Technology Institute (GTI) project titled - CALIFORNIA NATURAL GAS PIPELINE ASSESSMENT Project Number 500-10-050 is scheduled to be completed by the end of the first quarter of 2013. Contact information for the GTI Project Manager and Principle Investigator is provided below. The majority of the day-to-day interaction will be through Jim Marean whose primary office is located in Binghamton, NY.

The GTI project includes:

- A review of technology to manage pipeline integrity and safety that addresses:
  - The current state of technology being used in California
  - All available technology not currently being used
  - Emerging technologies that could be developed and implemented within two to four years
- A gap analysis of the available and emerging technologies
- An implementation plan to introduce new technologies that includes recommendations and necessary actions for each new technology
- The requirement to place special emphasis on the development of a strategy to integrate the use and optimize the value of the AMI system and the performance of the pipeline monitoring and safety technologies identified or developed for implementation

Project Manager

Andrew Hammerschmidt

R&D Manager

Infrastructure Sector

Gas Technology Institute

Office (847) 768-0686

Cell (847) 312-0599

Email [andrew.hammerschmidt@gastechnology.org](mailto:andrew.hammerschmidt@gastechnology.org)

Principle Investigator

James B Marean

Senior Program Manager

Infrastructure Sector

Gas Technology Institute

Cell 312/320-9407

Email [james.marean@gastechnology.org](mailto:james.marean@gastechnology.org)

Skype ID: james.marean1

**Project 2** : UC Berkeley Project titled - Natural Gas Pipeline Sensors - Project Number 500-10-044, which is also scheduled to be completed at the end of the first quarter 2013. Our goal is to develop novel sensors that would measure *in-situ* pressure, corrosion, and weld integrity of natural gas pipelines. This project will be managed on the technical side by Igor Paprotny, UC Berkeley. The contact information for the key UC Berkeley project personnel is provided below.

We have attached excerpts from our Statement of Work (SOW) to this email. In summary, the tasks of our project are:

1. To evaluate and benchmark currently available technologies for monitoring pressure, defects and corrosion in natural gas pipelines.
2. To develop next generation MEMS diagnostic sensors for pressure, defect and corrosion monitoring in gas pipelines.
3. To test prototypes of these novel sensors in the lab and in-field.

Key personnel at UC Berkeley:

Principal Investigator (PI)

Professor Paul K. Wright

CITRIS Director

Mechanical Engineering Department

University of California, Berkeley

330C Sutardja Dai Hall

Berkeley, CA 94720

office: (510) 643-2200

email: [pwright@citris-uc.org](mailto:pwright@citris-uc.org)

Technical Project Manager

Dr. Igor Paprotny

Research Scientist

CITRIS, BSAC UC Berkeley

373 Cory Hall

Berkeley, CA 94720

office: (510) 643 9825

cell: (802) 683 9081

email: [igorpapa@eecs.berkeley.edu](mailto:igorpapa@eecs.berkeley.edu)

url: <http://www.eecs.berkeley.edu/~igorpapa/>

Research Coordinator

Gaymond Yee

California Institute for Energy and Environment (CIEE)

2087 Addison Street, 2nd Floor

Berkeley, CA 94704-1103

office: (510) 459-6063

e-mail: [gaymond.yee@uc-ciee.org](mailto:gaymond.yee@uc-ciee.org)

We feel we have challenging and exciting projects that will have provide a tremendous opportunity to improve pipeline safety. We look forward to working with each of you and will be in touch to schedule our first Joint PAC meeting.

Best regards,

Jim Marean and Igor Paprotny