



**RE: reconciling our FRTG numbers**

Marcia K McNutt o wereley, ira.leifer

06/09/2010 06:49 PM

Cc: pdy, pmbommer, savas, antonio.possolo, pedro.espina, Bill.Lehr, aaliseda, rileyj, lasherass, mark\_sogge

Steve -

This is a legitimate question,



Marcia

**From:** Wereley, Steven T. <wereley@purdue.edu> [mailto:Wereley, Steven T. <wereley@purdue.edu>]  
**Sent:** Wednesday, June 09, 2010 1:48 PM  
**To:** ira leifer <ira.leifer@bubbleology.com>; Franklin Shaffer <Franklin.Shaffer@NETL.DOE.GOV>  
**Cc:** Poojitha Yapa <pdy@clarkson.edu>; Paul Bommer <pmbommer@mail.utexas.edu>; "savas@newton.berkeley.edu" <savas@newton.berkeley.edu>; Antonio Possolo <antonio.possolo@nist.gov>; "Pedro I. Espina" <pedro.espina@nist.gov>; "Bill.Lehr@noaa.gov" <Bill.Lehr@noaa.gov>; Alberto Aliseda <aaliseda@u.washington.edu>; James J Riley <rileyj@u.washington.edu>; Juan Lasherass <lasherass@ucsd.edu>; Mark K Sogge <mark\_sogge@usgs.gov>; Marcia K McNutt <mcnutt@usgs.gov>  
**Subject:** reconciling our FRTG numbers

Hi all.



Anyhow, something for all of us to think about...

Best,

Steve Wereley, Professor of Mechanical Engineering  
Birck Nanotechnology Center, Room 2019, 1205 West State Street

Purdue University  
West Lafayette, IN 47907  
phone: 765/494-5624, fax: 765/494-0539  
web page: <http://engineering.purdue.edu/~wereley>

-----Original Message-----

From: ira leifer [mailto:[ira.leifer@bubbleology.com](mailto:ira.leifer@bubbleology.com)]  
Sent: Tuesday, June 08, 2010 11:40 AM  
To: Franklin Shaffer  
Cc: Poojitha Yapa; Paul Bommer; [savas@newton.berkeley.edu](mailto:savas@newton.berkeley.edu); Antonio Possolo; Pedro I. Espina; [Bill.Lehr@noaa.gov](mailto:Bill.Lehr@noaa.gov); Wereley, Steven T.; Alberto Aliseda; James J Riley; Juan Lasheras; Mark K Sogge; Marcia K McNutt  
Subject: Re: Pooling Expert Assessments

Antonio,

I have 20 years of hourly data from the hydrocarbon seeps, which we submitted for publication in *Atm Environments* - a seep field which is migration through a complex fractured, faulted reservoir system to the seabed and seasurface and thus represents the subsurface migration processes to the pipe (also just published a study relating spatial variability to structural geology, and working on on on the a manuscript on the relationship between geologic structure and temporal emission variability).

I am happy to share that data, it illustrates how these type of systems (hc migration) behave, which has greater similarity to a geyser system than a river flow. To use the analogy.

I have attached the manuscript for anyone who is interested, however, for those who are very busy (everyone!!) there are a number of very pretty and highly meaningful figures.

warmest regards,  
Ira