

2742054060-52457-17374-171-133

From: Marcia K McNutt <mcnutt@usgs.gov>  
Sent: Wed, 4 Aug 2010 15:08:57  
To: GS FOIA 0105 <foia0105@usgs.gov>  
Subject: Fw: draft report - two notes from Omer

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Dr. Marcia McNutt  
Director  
US Geological Survey  
12201 Sunrise Valley Drive, MS 100  
Reston, VA 20192  
(703) 648-7411  
(703) 648-4454 (fax)  
(571) 296-6730 (cell)  
mcnutt@usgs.gov  
www.usgs.gov

\*\*\*\*\*

----- Forwarded by Janet N Arneson/DO/USGS/DOI on 08/04/2010 03:08 PM -----

From: "wereley, Steven T." <wereley@purdue.edu>

To: Marcia K McNutt <mcnutt@usgs.gov>, Franklin Shaffer  
<Franklin.Shaffer@NETL.DOE.GOV>

Cc: "'Alberto Aliseda'" <aaliseda@u.washington.edu>, "Bill.Lehr@noaa.gov"  
<Bill.Lehr@noaa.gov>, "'ira leifer'"  
<ira.leifer@bubbleology.com>, Juan Lasheras <lasheras@ucsd.edu>,  
"Pedro I.' 'Espina" <pedro.espina@nist.gov>, "pete@gso.uri.edu"  
<pete@gso.uri.edu>, "'Paul Bommer'" <pmbommer@mail.utexas.edu>,  
"'James J Riley'" <rileyj@u.washington.edu>,

2742054060-52457-17374-171-133  
"savas@newton.berkeley.edu" <savas@newton.berkeley.edu>

Date: 05/26/2010 01:17 PM

Subject: RE: draft report - two notes from Omer

In my 20 years working with PIV I've definitely gotten the glazed look when I start explaining what I do...

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>

From: Marcia K McNutt [mailto:mcnutt@usgs.gov]  
Sent: Wednesday, May 26, 2010 1:16 PM  
To: Franklin Shaffer  
Cc: 'Alberto Aliseda'; Bill.Lehr@noaa.gov; 'ira leifer'; Juan Lasheras;  
Pedro I.' 'Espina; pete@gso.uri.edu; 'Paul Bommer'; 'James J Riley';  
savas@newton.berkeley.edu; wereley, Steven T.  
Subject: Re: draft report - two notes from Omer

You are all so funny. Thinking that the public has an appreciation for PIV. :)

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Dr. Marcia McNutt  
Director  
US Geological Survey  
12201 Sunrise Valley Drive, MS 100  
Reston, VA 20192  
(703) 648-7411  
(703) 648-4454 (fax)  
(571) 296-6730 (cell)  
mcnutt@usgs.gov  
www.usgs.gov

\*\*\*\*\*

F "Franklin Shaffer" <Franklin.Shaffer@NETL.DOE.GOV>

r  
o  
m  
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T savas@newton.berkeley.edu, Bill.Lehr@noaa.gov

o  
:

2742054060-52457-17374-171-133

C "'ira leifer'" <ira.leifer@bubbleology.com>, "pete@gso.uri.edu"  
c <pete@gso.uri.edu>, "'Paul Bommer'" <pmbommer@mail.utexas.edu>, "Pedro  
: I.' 'Espina" <pedro.espina@nist.gov>, "Steven T. Wereley"  
<wereley@purdue.edu>, "'Alberto Aliseda'" <aaliseda@u.washington.edu>,  
"'James J Riley'" <rileyj@u.washington.edu>, "Juan Lasheras"  
<lasheras@ucsd.edu>, "'Marcia K McNutt'" <mcnutt@usgs.gov>

D 05/26/2010 01:07 PM

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S Re: draft report - two notes from Omer

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I agree that the various "PIV" techniques we are using are not strictly

what engineers would call PIV.

But given that the audience will be the general public, I think calling this "PIV" is close enough.

Myself, I'm using a new "PIV" technique that does not use any correlation methods such as those used in traditional double-pulse PIV.

Frank

>>> <savas@newton.berkeley.edu> 5/26/2010 12:47 PM >>>

On the use PIV

while the technique is intended for flow fields that are carefully seeded with tracers, in its application here, it relies on the natural contaminants as well as the flow features marked by the mixing of the jet with the sea water. Hence, the application of PIV is, in some ways mimics Image Correlation velocity (ICV) which attempts to fit 'a best' velocity field to minimize some cost function. In this application it is likely to provide (1) a depth averaged entrainment velocity and (2) phase speed of the features at the edge of the jet.

I suggest to include in the last paragraph

"Not all of the experts..."

"These included,....., using well-established similarity characteristics of turbulent jets,

Quoting Bill.Lehr@noaa.gov:

> Attached is my draft report to the FRTG

>

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- > oPlease send corrections to me as soon as possible
- > oJuan, your ppt will be included as an appendix
- > o Pedro, I put you old version in as a placeholder because the new
- > one was not displaying properly. Perhaps you could send it to me as a
- > pdf file?
- > o Jim, Alberto, and Omer, I need you bio's
- >