Opinion

My opinions are not necessarily the positions of AIAA or AIAA Houston Section. editor2012@aiaahouston.org

Additional resources

The Right Climate Stuff (TRCS) team is a Houston Clear Lake area group (mostly from that area) which first met in February of 2012. Most of their membership are veterans of the NASA/JSC community. Their web address is www.therightclimatestuff.com and they recently published preliminary results.

The Climate Abyss is a blog in the Houston Chronicle by Dr. John Nielsen-Gammon.

NASA Global Climate Change NASA's Eyes on the Earth My Big Fat Planet A blog hosted by Dr. Amber Jenkins of NASA/JPL http://climate.nasa.gov/blog

A 2008 Dr. Kevin Trenberth climate change lecture at UH is reported (pg. 9) in a past issue.

"Expert Credibility in Climate Change, Proceedings of the National Academy of Science (PNAS), April 9, 2010 (sent for review December 22, 2009).

"Here we use an extensive dataset of 1,372 climate researchers and their publication and citation data to show that (i) 97-98% of the climate researchers most actively publishing in the field show support for the tenets of anthropogenic climate change (ACC) outlined by the IPCC, and (ii) the relative climate expertise and scientific prominence of the researchers unconvinced of ACC are substantially below that of the convinced researchers."

Climate Change and Local Responses

DOUGLAS YAZELL, EDITOR, STARTING MY CLIMATE CHANGE COLUMN IN THIS ISSUE

opinion blog entry of January 29, 2013 (Other Voices, Can Climate Science Communica- Full disclosure: after seeing a tion Matter?).

alarmed after attending climate change presentations in September and October of Lake area. The September group. presenters were skeptical. The October presenters were three Revkin calls attention to the were alarmed.

those 2011 presentations made it easy for me to have confidence in the results presented by the United Nations International Panel on Climate Change (IPCC).

4, 2013 (Anthony Leiserowitz for you... of Yale University's Climate the Silence on Climate climate change to our Secupcoming day, May 17, 2013, at NASA/ JSC Gilruth Center.

Alarmed (16% of Americans), nology to Protect the Global

Join the Energy Quest. An- (2) Concerned (29%), (3) Cau- Environment (2009). drew C. Revkin says that is a tious (25%), (4) Disengaged better bumper sticker than (8%), (5) Doubtful (13%) and In Crisis. He was writing in a courages public debate, but not the IPCC: New York Times Dot Earth climate change debates titled, • It is virtually certain that the "Is it Real?"

draft of this article, two NASA/ JSC veterans invited me to I was between alarmed and participate as a member of The skeptical and leaning to being Right Climate Stuff (TRCS, described in the sidebar), and I accepted. My proposed climate change columns do not neces-2011 in the Houston Clear sarily reflect the views of any

university professors, climate excellent work of Dan Kahan science experts in my eyes, of the Yale University Cultural and some, if not all three, Cognition Project. "How much risk do you believe climate change poses to human health, An hour of PBS television safety or prosperity?" Science (Frontline, October 23, 2012, literacy (measured as numera-Climate of Doubt) put those cy, analogous to literacy and as presentations into perspective. easily measured as literacy) has Combining that TV show and a weak correlation with where its related web page with we fall in the range from skeptical to alarmed, but cultural identity has a strong correlation. Science literacy increases polarization on this subject, increasing alarm among the alarmed and increasing skepticism among the skeptical. Ask After watching another hour not what the new science of of PBS television on January science communication can do

Communication project on A quick search found three Moyers & Company, Ending national AIAA public policy information papers. They are Change), I started writing this not representing the AIAA column and suggested adding position: (1) Essential Capabilities for Operational Climate Annual Change Monitoring (2010, link Technical Symposium of Fri- not found), (2) Leveraging Aerospace Capabilities Climate Monitoring: An AIAA Information Paper (2010, link Leiserowitz divided his audi- not found), and (3) Advancing ence into six groups: (1) and Applying Aerospace Tech-

his presentation, one saying Fight the Climate (6) Dismissive (8%). He en- Dessler summarized results of

- climate is warming, and that it has warmed by about 0.7 degree C over the last 100 years.
- It is very likely that humans are responsible for most of the recent warming.
- If we do nothing to reduce our emissions of greenhouse gases, future warming will likely be at least 2 degrees C over the next century.
- Such a climate change brings with it a risk of serious adverse impacts on our environment and society.

A friend sent me a link to *How* to Talk to a Climate Skeptic, by Coby Beck at a web site called Grist, an environmental news and commentary web site. The same friend sent me a link to How we Know Global Warming is Real and Human Caused (February 8, 2012), by Donald R. Prothero, writing on a web site called **Skeptic**.

In his 2010 book Storms of My Grandchildren, James Hansen writes about data, just before his Figure 2: "...they take a scientific approach; they give primacv to real data. Theories and models of the future can help organize one's thoughts, they are only useful if they explain the real world. A convincing analysis must start with and place most weight on data and real-world observations."

Dessler's charts include a letter to a Senator on this subject. Other local responses: talking to friends and questions such as, "If sea level rise combines with a hurricane to damage our roads, should we create new standards before rebuilding?"