



### **INTRODUCTIONS AND WELCOME**

Dr. Stephen M. Ruffin Director, NASA's Georgia Space Grant Consortium Professor, School of Aerospace Engineering Georgia Institute of Technology Atlanta, GA

National Council of Space Grant Directors Spring 2015 Meeting February 26-28, 2015 Arlington, VA



## Outline

- Change of Leadership
- Introductions
- Agenda

#### **Georgia Institute** of Technology School of Aerospace Engineering

Dr. Stephen M. Ruffin, <u>stephen.ruffin@ae.gatech.edu</u> http://www.ae.gatech.edu/community/staff/bio/ruffin-s



#### The Terzian Way...

Use 15 min. time slot to give hour-long lecture on meaning and mystery of time!



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INVITED ESSAY

The Nature of Time

YERVANT TERZIAN Cornell University, Ithaca, NY 14853

Abstract—One of the most fundamental concepts in our **experience** of existence is the flow of time—continuously from the past to the future. Yet, the basic nature of time as part of the description of the universe is not understood at all. The conservation laws of physics seem to be time-symmetrical, every detailed action could occur in reverse, which argues that the concept of the passage of time is not needed in nature. Yet, that time flows in one direction remains part of our experience. Can time stop? Can we

"The conservation laws of physics seem to be time-symmetrical... which argues that **the concept of the passage of time is not needed in nature**." - Yervant Terzian



The Koehler Way...

We are a family that makes a dignified and noble pledge to the 5 Space Grant Program goals.



- 1) Establish and maintain a national network of universities with interests and capabilities in aeronautics, space and related STEM fields.
- Engage in cooperative programs among universities, aerospace industry, and Federal, state and local governments.
- 3) Engage in interdisciplinary training, research and public service programs in aeronautics, space and related STEM fields.
- 4) Recruit and train U.S. citizens, especially women, underrepresented minorities, and persons with disabilities, for careers in aerospace science and technology.
- 5) Promote a strong science, technology, engineering, and mathematics (STEM) education base from elementary through secondary levels while preparing teachers in these grade levels to become more effective at improving student academic outcomes.



#### The early days of rocket design...



- Inspire
- Train
- Support





# We are family Introduce our new addition



## Changes to Agenda

- FRIDAY, FEBRUARY 27

**Invited Talk** 

10:50 (20) Preview of Fall 2015 National Space Grant Directors Meeting *Tim Swindle* (AZ SGC)

Invited Talk

3:20 (30) *Aprille Ericsson*, SBIR/STTR Program Manager, Innovative Technology and Partnership Office - NASA Goddard

----- SATURDAY, FEBRUARY 28

9:05 (15) Kristen Erickson, Director, Science Engagement and Partnerships - NASA HQ