

# CGAR Quarterly 2010

## Highlighted Researcher Dr. Dan Macchiarella

Dr. Dan Macchiarella currently holds the position of Associate Professor and Chairman of Aeronautical Science at Embry-Riddle's Daytona Beach campus. In addition to his university duties, he also serves as the Principle Investigator for Synthetic Speech and Visual Data Communication for flight deck.

He holds a Ph.D. in Computing and Information Sciences and a Masters Degree in Training Development. Dan's interests include teaching, research, and development of simulations for flight training and educational needs in aviation.

The Aeronautical Science program is the largest collegiate aviation program in the nation with over 1500 students enrolled. Dan was the principle investigator for the university's 2 year long *Ab Initio Flight Training Device Effectiveness study*. The study pushed the envelope by applying non-motion –based flight simulation to train ab initio pilots to the FAA certified Private Pilot level. Dan's current principle project is the joint development of SAFTE™ - VAT™ (Synthetic Automated Flight Training Environment)-(Virtual Air Traffic) with the Frasca Corporation.

Dan serves as a standing member of the AIAA Modeling and Simulation Technical Committee. Dan has over 35 juried publications and 3 book chapters published. He is a retired Master Aviator from the US Army where he flew various aircraft including the AH-64 Apache.

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### Inside the Issue

Researcher Highlight	1
Annual Meeting Photo Board	2
Upcoming Events	4
Contact Information	4

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# CGAR Annual Meeting

## Fairbanks, Alaska

### June 15th—June 17th, 2010

This year, our Annual Meeting takes place at the University of Alaska Fairbanks Campus, Fairbanks, Alaska from June 15th to June 17th., 2010.

Program Reviews on the Agenda:

- **Safety Management Systems:** a discussion on the progress of the GA ASIAS research program and the benefits to General Aviation  
Dr. David Esser (ERAU),  
Leonard Kirk (UAF),  
Dr. Alan Stolzer (ERAU)  
Gary Ullrich (UND)
- **Alaska Research Needs in Aviation,**  
Leonard Kirk (UAF)
- **Synthetic Speech and Visual Data Communications for Flight Deck Use**  
Dr. Jason Kring (ERAU)
- **CGAR UAS Involvement with the FAA Presentations,**  
Ernie Anderson (UND)  
Greg Walker (UAF)  
Tim Wilson (ERAU)  
Gabrielle Dodosh (WU)
- **NextGen:** an examination of NextGen activities supported by the CGAR and a look to future NextGen areas of CGAR research support,  
Dr. Steven Hampton (ERAU)  
Leonard Kirk (UAA)  
Jens Hennig (Vice President of Operations, GAMA)  
Jim Wright (FAA Surveillance Broadcast Services SBS Office)



- **Elevated Runway Guard Lighting**

Jon French (ERAU)

- **Remote Airport Lighting Systems**

Don Gallagher (FAA)

Leonard Kirk (UAA)

Chris Grant (ERAU)

- **Helicopter Lighting System**

Tom Zeidlek (UND)

Tina Anderson (UND)

- **Octane Enhancers for Crop Oils**

Dr. Brian Tande (UND)

- **Weather Technology in the Cockpit**

Ian Johnson (FAA)

Dr. John Lanicci (ERAU)

Leonard Kirk (UAA)

Leslie Martin & Tina Anderson (UND)

- **Friction Study**

Tom Zeidlek (UND)



The Annual Meeting concluded with the CGAR Faculty of the Year Awards Presentation, by Dr. Patricia Watts (FAA) and Dr. Steven Hampton, Executive Director, CGAR, to:

Dr. Alan Stolzer (ERAU)

Dr. John Tomblin (WSU)

Dr. John Lanicci (ERAU)

Tom Zeidlek (UND)

*2017 Meeting Photo Gallery*

## Schedule of Events



EAA Air Venture:  
Oshkosh, WI  
July 26—August 1, 2010

[www.airventure.org](http://www.airventure.org)



ATCA: Washington DC  
October 24-27, 2010

[www.atca.org](http://www.atca.org)

## TO GET INVOLVED CONTACT

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