

UPWARDS at Kean! - Atmospheric & Geoscience Education Nexus – Trailblazing Students (AGENTS) of Change: Undergraduates Providing Weather Activities for Research & Development of Skills at Kean University

Paul J. Croft, Kean University
Department of Geology & Meteorology

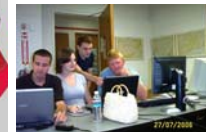
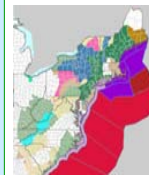
Upward Bound – NJESTA – CESE – Epsilon Corps – MISE



AGENTS of Change...

Upward Bound...

- College Bound students
- College Experiences
- Science and Technology
- Science Activities K-12
- Weather Data online
- Statistical summary
- Graphical analysis
- Research Connections

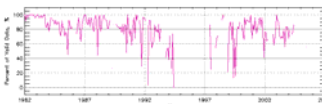


NJESTA/CESE...

- ✓ Teacher training
- ✓ Earth Science Education
- ✓ Earth System Science
- ✓ Guest Visits, Career Days
- ✓ Annual Meeting, Outreach

MISE...

- ✓ Teacher Workshops
- ✓ Applications & Data
- ✓ Resources
- ✓ Presentations
- ✓ Pedagogy



Outreach & Professional Development

Cougar's Byte Forecasts

Research Projects

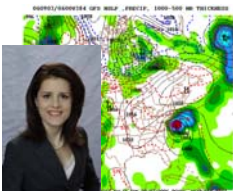


ENGAGE – IMMERSE - RELEVANCE



Geo-Weather Research & Operations Center

KU - TV/Radio
Keancasts online
Networks, others



EXAMINE – RELATE - INQUIRY

EXPLORE – DISCOVER - ACTIVITY

Epsilon Corps...

- Activities for exploration in weather
- Use of technology & sampling data
- Mentoring, self-discovery, tutoring
- Scientific Literacy and Training
- High School Research Projects



Acknowledgements

Department of Geology & Meteorology
Faculty & Staff, Students and Majors, Alumni
KU Upward Bound Program, NJESTA, CESE, Epsilon
Corps, MISE Program
Kean University Meteorology Program
NWS, NCEP

