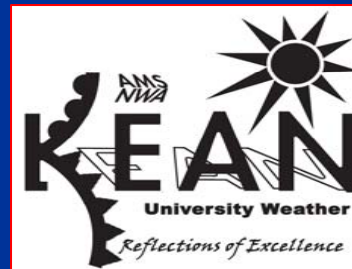
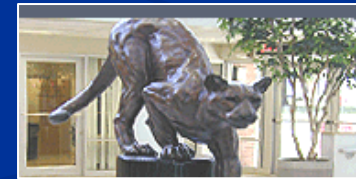




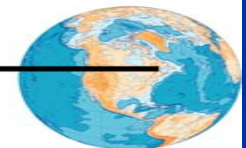
Welcome to... “*CARPE DIEM!*”



Dr. Paul J. Croft



G & M Department of Geology
and Meteorology
Kean University



Center for Earth System Education

- Mission & Programs
 - Teacher Training
 - Educational Workshops
- Website Support
 - Curricular Planning
 - Lesson Plans
- Research Partnerships
 - Middle/High School
 - Undergraduate Students

**Weather
Hazard
Education
& Research
for Ecosystems
of Urban Relevance
in NJ
"WHERE U-R in NJ!"**



Mission:

The Center for Earth System Education mission at Kean University is to encourage, support, and promote earth system education at all levels. The earth system, comprised of both natural and human components, constitutes our world and determines the nature of our interactions & impacts on it as well as its impacts upon us every day.



CARPE DIEM!

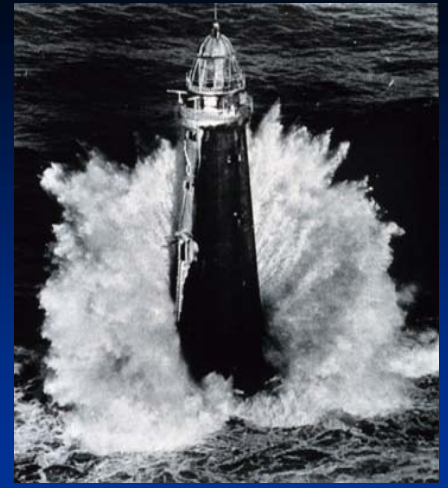
*“Collaborative Atmosphere for
Research Practicum in the Environment:
Direct Interactions, Education, and Modalities!”*

What is that?

Outreach for STEM research and related activities
for middle and high school students (& teachers)

CARPE DIEM! – Details?

- Middle and High School students in NJ
- Research and related activities with KU
- Earth System Science & Science Activities
- Teacher training & workshops
- Annual commitment
- Tours, field trips, speakers, similar
- Professional Growth



Partners!



Earth Systems Collaborative Community



How does it work?

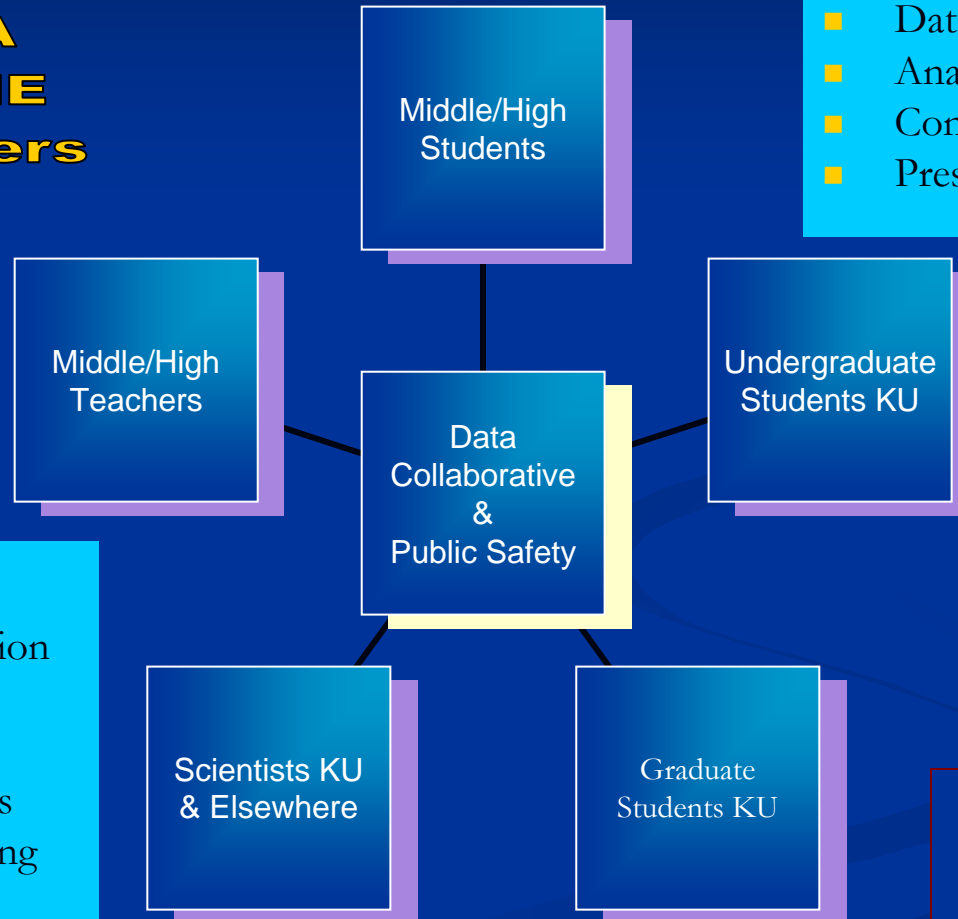
Includes partners

NJSTA

NJESTA

NJCSTME

Many others



High School...

- Identify issues/problems
- Literature Review
- Plan of work & Hypotheses
- Methods/Procedures
- Data Collection/QC
- Analysis (spatial, temporal)
- Conclusions/Bibliography
- Presentation

Middle School...

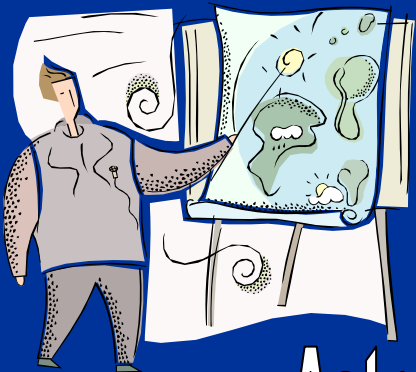
- Issue/Topic Identification
- Hypothesis Making
- Data Collection
- Comparisons/Contrasts
- Problem Finding/Solving
- Operational Methods
- Results & Interpretation
- Presentation



**All Sciences,
Science
Standards,
Deliverables**

How do I get started?

- Professional Development Hours
- Student-Centered Projects (one : one)
- Certificates of Completion
- Paper/Poster presentations
- Written Report/Paper
- <http://hurri.kean.edu/cese>



cese@kean.edu

1-908-737-3874

Thank you!

Astronomy - Geology - Meteorology - Hydrology