



Mount Ste Victoire, Aix en Provence, France

**Welcome !**

**IUR- AERC Workshop on  
« Integration of ecosystem research into  
radioecology of the nuclear age »**

**2-6 October 2016, Aiken, South Carolina, USA**

# Why this Workshop ? Historical inputs



## Two problematic issues at start...

- Lack of scientific consensus on the ecological impact of radiation (examples: Chernobyl, Fukushima)
- Current methodology for “environmental” risk assessment is not matching protection objectives (address individuals only)

## .... That promote negative consequences

- Both are prone to undermine society’s confidence in the safe use and development of nuclear industry

## What can be done to improve the situation?

# Miami IUR International consensus Symposium

(November 2015)



## Addressed three major questions

- What is meant by environmental protection ?
- What about field and laboratory studies ?
- What about ecosystem approach, systems ecology, indirect effects ?

## One major conclusion reached:

- Include more ecosystem science into radioecology

## Gene's brilliant idea... to move one step further

- AERC can be committed to brainstorm together with IUR on this exciting issue (which goes far beyond the radiation field)

# AERC-IUR Workshop on Integration of ecosystem science into radioecology of the nuclear age



## Three major questions to be addressed

- How Can Ecosystem Science Support Ecological Risk Assessment?
- What Ecosystem Level Endpoints Potentially Could Be Used For Radiological Risk Assessment?
- What Inference Strategies and Associated Methodologies Would be Most Appropriate to Assess the Effects of Radionuclides on Ecosystem Structure and Function?

A scenic photograph of a sunset over a large body of water. The sky is filled with vibrant, colorful clouds in shades of blue, purple, and pink. In the distance, a range of mountains is visible under the twilight sky. In the foreground on the left, the dark silhouette of a palm tree's fronds is visible, framing the scene. The water reflects the colors of the sky.

**Thank you for your attention**

**Questions ?**