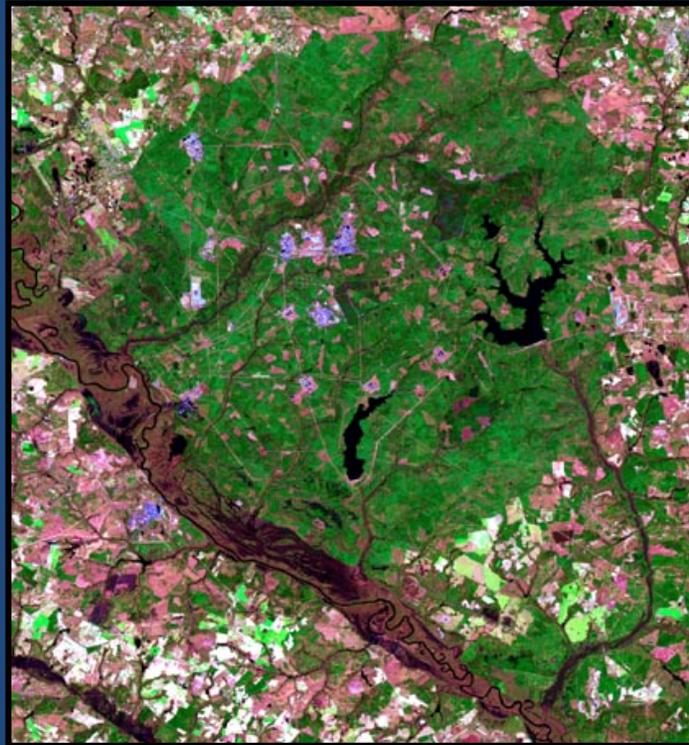


Savannah River Ecology Laboratory - FY10 update to the SRS Citizens Advisory Board

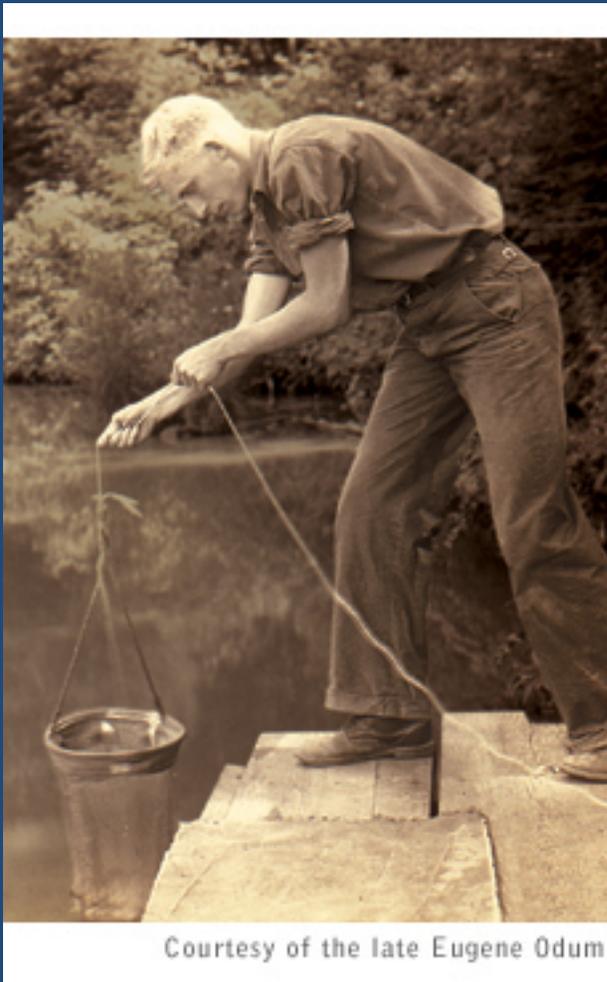


The University of Georgia

Savannah River Ecology Laboratory

SREL History

1951 - Atomic Energy Commission had concerns about environmental impacts resulting from Savannah River Site construction and operations.

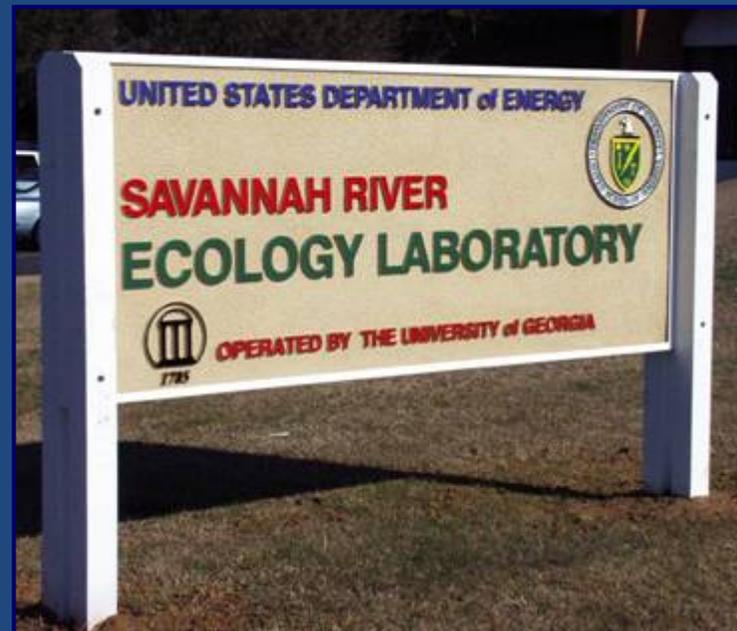


Courtesy of the late Eugene Odum

Dr. Eugene Odum

1951 to present – Funding from AEC, ERDA, and DOE

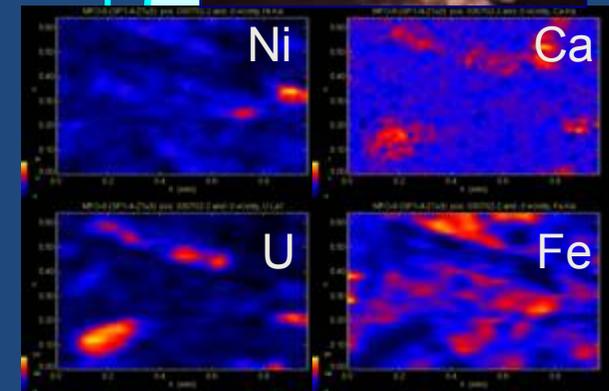
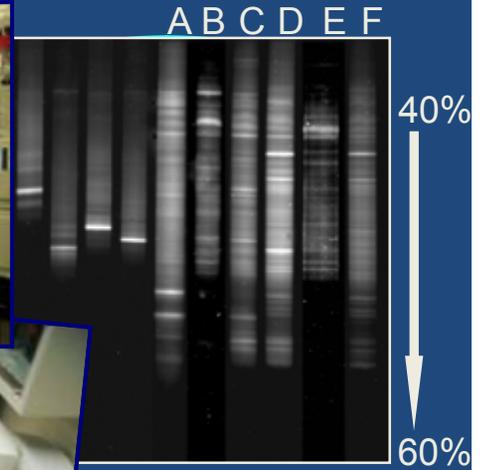
1954 – Established permanent lab on the SRS



1977 – Established current lab facilities

Research Areas

- Aquatic and terrestrial ecology
- Geology / soil science
- Environmental microbiology
- Hydrology
- Molecular biology
- Environmental chemistry
- Radiation ecology
- Ecotoxicology and risk assessment
- Remediation



SREL's Mission:

“To enhance our understanding of the environment by acquiring and communicating knowledge that contributes to sound environmental stewardship.”

“To provide the public with an independent evaluation of the ecological effects of SRS operations on the environment”

- An interdisciplinary program of field and laboratory **research** conducted largely on the SRS and published in the peer-reviewed scientific literature
- **Education** and research training for undergraduate and graduate students
- **Service** to the community through environmental outreach activities



Research -

- 3154 peer-reviewed scientific publications to date



Education –

- > 650 undergraduate students
- > 400 graduate degrees

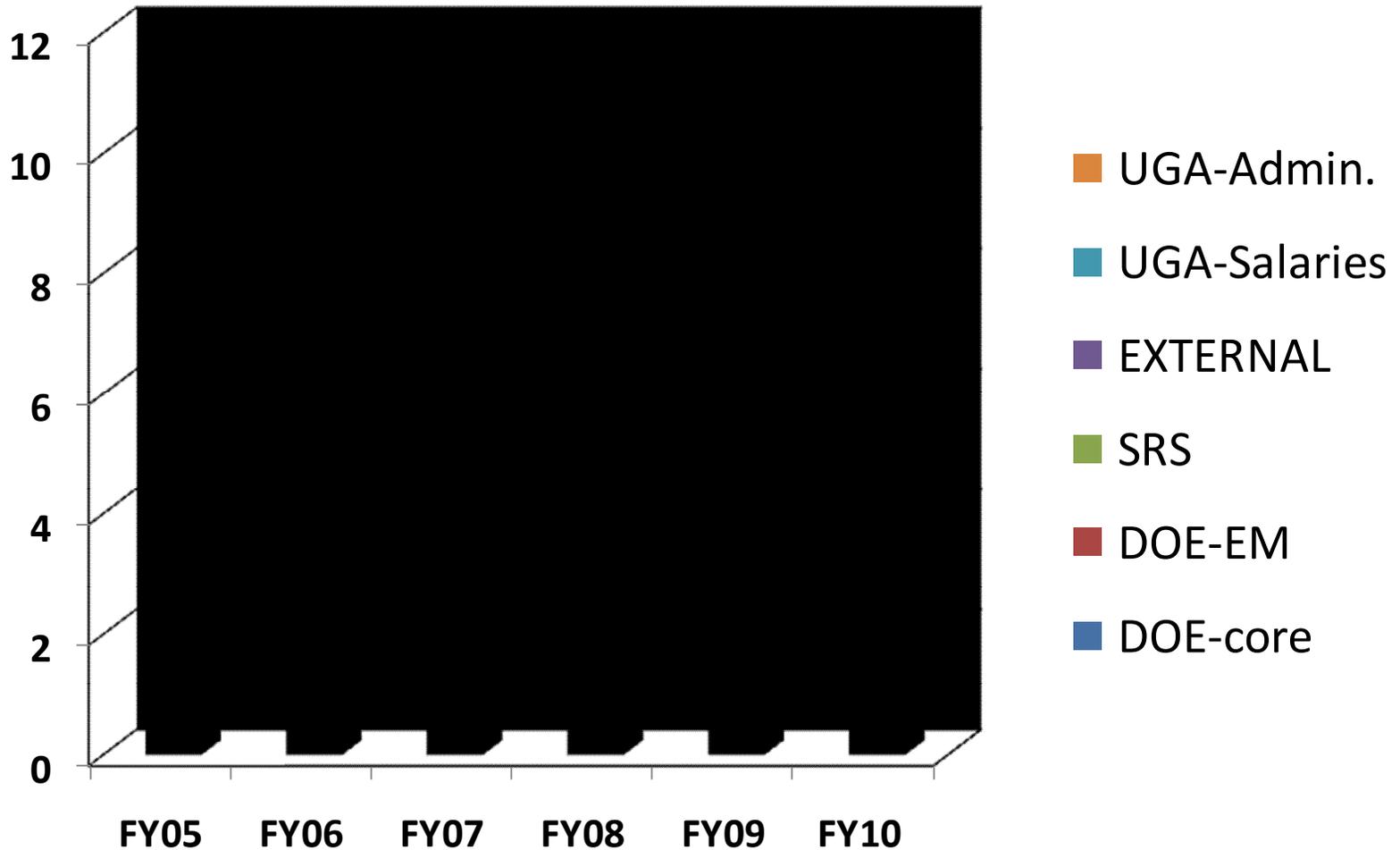


Outreach -

- SREL presented 269 talks, gave 18 tours, and 15 exhibits in FY09, reaching over 29,000 people



RECENT FUNDING HISTORY



FY2010 SREL Budget

- DOE Projects
 - \$ 734K NNSA MOX
 - \$ 391K NNSA Tritium
 - \$1,300K SRS ACP
 - \$ 300K EM HQ
 - \$ 243K SRNL subcontracts
 - \$ 105K SRNS subcontracts
- Other Projects
 - \$ 375K Outside Grants (NSF, USFWS, City of Augusta, etc)

TOTAL FY10 = \$3.5M
(\$795K Indirect Return)

FY2011 is likely to be similar
FY2012 is uncertain

SREL in FY10

◎ UGA Employees

- 7 research faculty
- 4 emeritus faculty
- 2 post docs
- 23 technical
- 10 seasonal technical
- 6 graduate students
- 3 undergraduates
- 12 admin & support

67 EMPLOYEES (55 FTE)

◎ Facilities & Research Areas

- A-Area (laboratories, equipment, offices, animal care, storage)
- Par Pond (low-dose facility and aquatic laboratory)
- 30 DOE Set-Asides
- 75 field research sites

Significant events since FY07

◎ UGA

- In response to DOE-EM request, negotiated with DHHS for increase in Indirect Costs from 11 to 30%
- Allowed majority (78%) of the 30% Indirect Costs to be retained by SREL
- \$1.7M in extra support in FY08
- Partial employment of emeritus faculty
- Partial funding of Director's salary
- Replaced aging ICP-MS (\$180K)

◎ DOE

- Building, equipment, and site access
- Building utilities
- Assisted in SREL consolidation from B-Area
- SREL facilities added to Site integrated priority list
- Funding for 12 environmental clean up projects in FY10/11
- Continued to provide opportunity to project funding (ACP, HQ-EM, and NNSA)

Challenges working under existing Cooperative Agreement

Current CA ends 11-30-11

1. Work scope:

- Research Set-Asides, Site Uses
- NERP promotion and visitors
- Collegial Education programs
- General public outreach
- Basic Research
- Site-wide committees

2. Aging facilities – Major infrastructure needs

3. Replacing or upgrading expensive scientific equipment

4. Maintaining unique SREL facilities/capabilities, including UGA Conference Center and LoDIF

5. Maintain funding level to be able to provide ecological/environmental expertise

Considerations for the New CA

Examine the difference between DHHS Indirect criteria and true cost of an SRS tenant organization

Attracting/retaining critical positions (Director, faculty, IT Manager, Business Manager)

Initiate discussions of the CA renewal with DOE to address some of the challenges encountered in the existing CA