

## **UNC PEMBROKE BIOTECHNOLOGY SUMMER ACADEMY-2005**

### **FIRST SESSION**

#### **Tuesday, May 31**

- 9 AM Cloning and Genetic Engineering of Animals: *DNA Paternity Testing Lab* (1 h)
- 1 PM Specialist Speaker on Biotechnology and Animals: **Dr. Charlotte Farin**  
Animal Reproductive Techniques: *Semen Evaluation Lab* (3 h)

#### **Wednesday, June 1**

- 9 AM Specialist Speaker on Biotechnology and the Environment: **Dr. Jason Andrus**  
Using Microbes to Clean Up the Environment: *Testing and Use of a Bioreactor Lab* (3 h)
- 2 PM Biotechnology Techniques for the Environment: *Genetically Engineered Plants Clean Up Toxic Wastes Lab* (1 h)  
Detecting Environmental Pollutants: *Diagnostic Testing Lab* (1 h)

#### **Thursday, June 2**

Field Trip to USDA, Charlotte. There at 1 PM. Contact Ed Hoerning or Michael Sussman Ph: 704-867-3873

#### **Friday, June 3**

- 9 AM Gene Transfer: *Creating Plant Protoplasts Lab* (2 h)
- 1 PM Specialist Speaker on Biotechnology and Plants: **Dr. Robert Grier, IV**  
Plant Tissue Culture: *Stage I Culture of Lily Bulbs Lab* (2 h)

#### **Saturday, June 4**

Field Trip to the Green Swamp Ecology and Biodiversity in Whiteville. Contact Becky Westbrooks Ph: 910-642-7141 ext. 291 or Teresa Langer Ph: 910-642-7141. Be back by 3 PM.

### **SECOND SESSION**

#### **Monday, June 20**

- 9 AM Biotechnology Techniques for the Environment: *Genetically Engineered Plants Clean Up Toxic Wastes Lab* (1 h)  
Detecting Environmental Pollutants: *Diagnostic Testing Lab* (1 h)
- 1 PM Specialist Speaker on Biotechnology and the Environment: **Dr. Robert Grier, IV**  
Using Microbes to Clean Up the Environment: *Testing and Use of a Bioreactor Lab* (3 h)

#### **Tuesday, June 21**

- 9 AM Cloning and Genetic Engineering of Animals: *DNA Paternity Testing Lab* (1 h)
- 1 PM Specialist Speaker on Biotechnology and Animals: **Dr. Charlotte Farin**  
Animal Reproductive Techniques: *Semen Evaluation Lab* (3 h)

#### **Wednesday, June 22**

Field Trip to USDA, Charlotte. There at 1PM. Contact Ed Hoerning or Michael Sussman Ph: 704-867-3873

#### **Thursday, June 23**

- 9 AM Gene Transfer: *Creating Plant Protoplasts Lab* (2 h)
- 1 PM Specialist Speaker on Biotechnology and Plants: **Dr. Robert Grier IV**  
Plant Tissue Culture: *Stage I Culture of Lily Bulbs Lab* (2 h)

#### **Friday, June 24**

Field Trip to the Green Swamp Ecology and Biodiversity in Whiteville. Contact Becky Westbrooks Ph: 910-642-7141 ext. 291 or Teresa Langer Ph: 910-642-7141. Be back by 3 PM.