## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am</td>
<td><strong>Opening Remarks</strong>: Michael Salassi, Associate Vice President, LSU AgCenter</td>
</tr>
</tbody>
</table>
| 8:40-9:25    | **Keynote Speaker**: Alex Kolker, Associate Professor, LUMCON.  
*The Cycle of the Delta Development in the Lower Mississippi River* |
| 9:30-9:40    | **Roseau cane scale**: Research progress made in the last four years  
Diaz, R., Aviles, L., Cronin, J., Knight, I., Berry, M., Snook, J. and Sparks, T. |
| 9:45-9:55    | **Parent rhizome size dictates Phragmites tolerance to the Roseau cane scale herbivory**  
Snook, J., Diaz, R., Berry, M. |
| 10:00-10:10  | **Range expansion of the invasive Roseau cane scale**: A report on the spread of  
*Nipponaclerda biwakoensis* across the US Gulf Coast  
Berry, M., Diaz, R., Sparks, T., Pruett, K. and Eastman, E. A. |
| 10:15-10:25  | **Natural enemy exclusion studies of the Roseau cane scale** (*Nipponaclerda biwakoensis*) in the native and adventive ranges  
Sparks, Cortez Jr., A., Diaz, R., Huang, S., and Broadley, H. |
| 10:30-10:40  | **Unraveling the settling behavior of the Roseau cane scale**: effects of lineage, plant height, physical structure, and plant chemistry  
DeSoto, A., Stout, M., Glassmire, A, and Gafke, A. |
|              | Coffee Break                                                          |
| 10:50-11:00  | **The chemical landscape of Phragmites australis**                     
| 11:05-11:15  | **Metabolomic diversity of Phragmites australis**                      
| 11:20-11:30  | **Isolation of culturable fungi from Roseau cane (Phragmites australis) foliage growing in die-off and non-die-off affected areas of coastal Louisiana**  
Galo, D. and Valverde, R. A. |
| 11:35-11:45  | **Population genetics and transcriptional responses to environmental stresses in Phragmites australis**  
Richards, J.K. |
| 11:50-noon   | **Interactions between Roseau cane (Phragmites australis) and its rhizosphere microbiome**  
DeVries, A. and Doyle, V. |
|              | Lunch Break                                                           |
| 1:00-1:10 pm | **Ecology of parasitoids of the Roseau cane scale in Louisiana**       
Pruett, K., Diaz, R., Knight, I., Broadley, H. |
| 1:15-1:25    | **Research toward the development of biological control methods for Roseau cane scale**  
| 1:30-1:40    | **Tri-trophic genetic analyses of Roseau Cane Scale, its endosymbionts, and parasitoids**  
1:45-1:55  Investigating the potential for abiotic factors to influence *Phragmites* die-off in the Mississippi River Delta: a multi-tiered approach
Quirk, T., Lynn, A., Jacobs, D., and Hurley, O.

2:00-2:10  There’s something in the porewater: investigating abiotic factors associated with Roseau Cane Dieback
Lynn, A. and Quirk, T.

2:15-2:25  *Phragmites australis* and haplotypic response to abiotic stressors
Jacobs, D. and Quirk, T.

2:30-2:40  Restoration of *Phragmites australis* dieback in the Lower Mississippi River Delta: lessons and future directions for restoration
Lee, H., Diaz, R., Nyman, A., Kinler, Q., Knight, I., Johnston, J., Gill, M., Cronin, J.

2:45-2:55  *Phragmites australis* Dieback May Be Desirable on Most of the Northern Gulf Coast but Not at the Mouth of the Mississippi River

Coffee Break

3:05-3:15  The Effect of *Phragmites australis* Dieback on Channel Sedimentation in the Mississippi River Delta: A Conceptual Modeling Study
Meselhe, E.

3:20-3:30  Remote sensing studies of Roseau cane die-off: planning and progress
Meng, X.

3:35-3:45  Historical vegetation coverage dynamics in lower MRD based on Landsat and Roseau cane habitat mapping through high-resolution drone sensors
Shang, N., Meng, X.

3:50-4:00  Expanding remote sensing studies to Roseau cane die-off in other regions of coastal Louisiana
Awasthi, B., Meng, X.

4:05-4:40  Open Discussion

**Posters**

Using web scraping and citizen science data to evaluate bird predation on the Roseau cane scale
Suzuki, N., Matsumoto, I. and Broadley, H. J.

Exploratory surveys of Roseau Cane Sale and its associated parasitoids in Taiwan
Cortez, Jr., A. O., Hwang, S.-Y., Broadley, H. J., and Lo, Y.-S.

*Phragmites australis* sexual reproduction effort, phenology and seed bank potential in the Mississippi River Delta
Hurley, O., Lynn, A. and Quirk, T., Undergrad poster

Response of Roseau cane (*Phragmites australis*) to two biotic stresses: the aphid *Hyalopterus pruni* and the fungus *Bipolaris yamadae*
Cizek, H., Galo, D., and Valverde, R. A.

Roseau cane scale. Oil Painting. R. Diaz