



# Monday, February 24

## Water Symposium- Salon A,B,C,D

Irrigation management influences every other aspect of rice production. In recent years, much attention has been given to irrigation use amounts and its influence on rice yield in traditional rice management systems. Newer rice irrigation techniques (AWD and furrow irrigation) to the midsouthern U.S. have the potential to alter many aspects of rice production, including fertilizer management and greenhouse gas emissions from rice paddies. This symposium will address knowledge gained in the use of alternative rice management strategies in comparison to traditional management as well as the pitfalls and successes associated with each system.

**Moderator: Drew Gholson, Mississippi State University**

- |                     |  |
|---------------------|--|
| 1:35 p.m.–1:40 p.m. | <b>Opening Remarks</b><br><b>D. Gholson</b>  |
| 1:40 p.m.–2:00 p.m. | Improving the Furrow Irrigated Rice System.<br><b>C. Henry</b> , <i>R. Mane, G. Simpson, J. Rix, N. Blankenship</i>  |
| 2:00 p.m.–2:20 p.m. | Evaluation of N Fertilization in Furrow Irrigated Rice.<br><b>D. Harrell</b> , <i>A. Coker, M. Kongchum</i>  |
| 2:20–2:40 p.m.      | Comparisons of Field-Scale Irrigation use Efficiencies for Alternative Rice Irrigation Practices.<br><b>J. Massey</b> , <i>M. Reba, A. Adviento-Borbe, R. Sullivan, R. Moore</i> |
| 2:40 p.m.–3:00 p.m. | Contribution of Winter Cover Crop on Ammonia and Greenhouse Gas Emissions in Furrow Irrigated Rice Systems.<br><b>S. Karki</b> , <i>A. Adviento-Borbe, J. Massey, M. Reba</i>    |
| 3:00 p.m.–3:20 p.m. | <b>Break</b>   |
| 3:20 p.m.–3:40 p.m. | Comparison of Field-Scale Methane Reductions   |



with Alternate Irrigation Techniques in U.S. Mid-South Rice Production.

**M. Reba**, B. Fong, C. Reavis, B. Runkle,  
K. Suvocarev, A. Adviento-Borbe, J. Massey

3:40–4:00 p.m.

Greenhouse Gas Emissions of Selected Southern U.S. Varieties Under Alternate Wetting and Drying Irrigation Systems.

**A. Adviento-Borbe**, S. Kharki, B. Levenbach, J. Massey, M. Reba, B. Ottis

4:00 p.m.–4:20 p.m.

Good to be Green: Enhancing Rice Production and Ecosystem Services with Algae.

**D. Heuschele**, M. Reba, B. Runkle

4:20 p.m.–4:40 p.m.

Comparison of Water-Saving Irrigation Practices in Rice Production in Arkansas using Two Farm Sustainability Tools.

**B. Moreno-Garcia**, C. Reavis, K. Suvocarev, B. Runkle

4:40 p.m.–5:00 p.m.

Open Discussion

5:00 p.m.

Adjourn