# 2017 Drainage Research Forum

Iowa State University Alumni Center, Ames, Iowa

## Wednesday, November 15, 2017

<table>
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<tr>
<th>Time</th>
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<td>9:00 AM</td>
<td>Registration and refreshments</td>
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| 9:30 AM–9:45 AM | Welcome and introductions  
Chris Hay, senior environmental specialist, Iowa Soybean Association; Matt Helmers, professor, Agricultural and Biosystems Engineering, Iowa State University; Gary Sands, professor and department head, Bioproducts and Biosystems Engineering, University of Minnesota |
| 9:45 AM–10:15 AM | Edge-of-field subsurface drainage water quality monitoring  
Adam Kiel, operations manager, Environmental Programs and Services, Iowa Soybean Association |
| 10:15 AM–10:45 AM | Woodchip bioreactors: Strategies for enhanced performance and multi-contaminant removal  
Michelle Soupir, associate professor, Agricultural and Biosystems Engineering, Iowa State University |
| 10:45 AM–11:00 AM | Break |
| 11:00 AM–11:30 AM | Novel bioreactor media experiments to enhance microbial denitrification  
Lori Krider, graduate student, Bioproducts and Biosystems Engineering, University of Minnesota |
| 11:30 AM–12:00 PM | Nitrate removal in strategically placed wetlands  
Bill Crumpton, professor, Ecology, Evolution and Organismal Biology, Iowa State University |
| 12:00 PM–1:00 PM | Lunch (provided) |
| 1:00 PM–1:30 PM | Wetland performance in Minnesota  
Chris Lenhart, research assistant professor, Bioproducts and Biosystems Engineering, University of Minnesota |
| 1:30 PM–2:00 PM | Transforming drainage overview  
Ben Reinhart, project manager, Agricultural and Biological Engineering, Purdue University |
| 2:00 PM–2:30 PM | Establishment of a drainage water recycling system  
Jeff Strock, professor, Soil, Water and Climate, University of Minnesota |
| 2:30 PM–2:45 PM | Break |
| 2:45 PM–3:15 PM | Drainage water recycling on-farm storage sizing tool  
Ben Reinhart, project manager, Agricultural and Biological Engineering, Purdue University |
| 3:15 PM–3:45 PM | Evaluating drainage water recycling benefits for crop production in Iowa  
Chris Hay, senior environmental specialist, Iowa Soybean Association |
| 3:45 PM | Forum concludes |