

**Forestry Best Management Practices Research Symposium**  
**April 15-17, 2002**  
**Atlanta, Georgia**

**Monday, April 15**

**Plenary Session One**

- 1:00 pm    **Welcome and Introduction**  
*Jim Shepard, NCASI*
- 1:05 pm    **Keynote Address: Water Quality Protection – The Status and Challenge for Forestry**  
*Rob Olszewski, Plum Creek Timber Company*  
[Presentation](#)
- 1:35 pm    **State Forestry Agency Perspectives on BMP Research**  
*Steve Koehn, Maryland Department of Natural Resources Forest Service*  
[Presentation](#)
- 2:05 pm    **EPA Perspectives on BMP Research**  
*Tom Welborn, Environmental Protection Agency*  
[Presentation](#)
- 2:35 pm    **Private Landowner Perspectives on BMP Research**  
*Bob Slocum, North Carolina Forestry Association*  
[Presentation](#)
- 3:40 pm    **Approaches to BMP Compliance Surveys in the Southern States**  
*Bruce Prud'homme – USDA Forest Service*  
[Presentation](#)                      [Slide Commentary](#)
- 4:20 pm    **State BMP Monitoring Programs in the Eastern United States**  
*Michael A. Kilgore, Paul V. Ellefson, and Michael J. Phillips. University of Minnesota*  
[Abstract](#)                      [Presentation](#)

**Poster Session**

**Effects of Silviculture within Riparian Forests on SMZ Functions**

*R. Governo, B.G. Lockaby, and C. Colson, Auburn University; B. Rummer, USDA Forest Service, Auburn, Alabama*

[Abstract](#)

**Defining Perennial, Intermittent and Ephemeral Channels in Eastern Kentucky; Application to Forestry Best Management Practices**

*R.K. Kolka, USDA Forest Service, J.R. Svec and J.W. Stringer, University of Kentucky*

[Abstract](#)

**Effect of Riparian Zone BMPs on Coarse Woody Debris in Appalachian Watersheds**

*J.D. McClure, University of Kentucky, A. White, Johnson C. Smith University and R.K. Kolka, USDA Forest Service*

[Abstract](#)

[Poster](#)

## Poster Session (continued)

### **Life-Cycle Water Quality Impacts from Culvert Stream Crossings**

*D.T. McLemore, S.E. Taylor, K.H. Yoo, Auburn University; and R.B. Rummer, USDA Forest Service, Auburn, Alabama*

[Abstract](#)

### **Life-Cycle Water Quality Impacts from a Temporary Bridge Stream Crossing and its Road Approaches**

*L.A. Montgomery, S.E. Taylor, K.H. Yoo, Auburn University; and R.B. Rummer, USDA Forest Service, Auburn, Alabama*

[Abstract](#)

### **Utilizing Streamside Management Zones to Predict Macroinvertebrate Indicators of Water Quality**

*Christopher Nickel, Donald J. Lipscomb, Thomas M. Williams, and W.R. English, Clemson University*

[Abstract](#)

### **Using GIS and GPS to Evaluate BMPs and the Effects of Forest Roads on Erosion and Sediment Delivery at the Landscape Scale**

*Don Turton, Oklahoma State University and Dan Marion, USDA Forest Service, Oxford, MS*

[Abstract](#)

### **Aquatic Macroinvertebrate Assemblages in Southwest Georgia Headwater Streams Prior to Harvesting Treatment**

*R.T. Winn, M. Miwa, M. H. Hughes, C.W. Hedman, W.B. Summer, International Paper and S.W. Golladay, J.W. Jones Ecological Research Center*

[Abstract](#)

[Poster](#)

### **A Classification of Mature Forests on Long Island, NY**

*A.M. Greller, New York Metropolitan Forest Ecosystem Council*

[Abstract](#)

### **National Management Measures to Control Nonpoint Source Pollution from Forestry**

*Christopher Solloway, U.S. Environmental Protection Agency*

[Abstract](#)

## Tuesday, April 16

### Plenary Session Two

8:00 AM **Harvesting and Site Preparation Best Management Practices in the Eastern U.S.:**

#### **An Overview**

*W.M. Aust, Virginia Tech and C. Blinn, University of Minnesota*

[Abstract](#)

[Presentation](#)

8:40 AM **BMPs for Silvicultural Chemicals**

*J.L. Michael, USDA Forest Service, Auburn, Alabama*

[Abstract](#)

[Presentation](#)

9:20 AM **Enhancing BMPs Through Harvest Planning Training for Loggers**

*Mike Aust and Bob Shaffer, Virginia Tech*

[Abstract](#)

[Presentation](#)

## Concurrent Session 1A: Research Methods

- 10:30 AM **Most Pollutants Delivered to Receiving Waters in a Few Events Annually – Implications for Design and Application of Forestry BMPs** *Carlyle Franklin and Dennis Hazel, North Carolina State University*  
[Abstract](#) [Presentation](#)
- 10:50 AM **Can We Measure BMP Effectiveness Using State Water Quality Standards?** *George Ice, National Council for Air and Stream Improvement*  
[Abstract](#) [Presentation](#)
- 11:10 AM **Methodological Issues in BMP Effectiveness Studies** *C. Rhett Jackson and L. A. Morris, University of Georgia*  
[Abstract](#) [Presentation](#)
- 11:30 AM **Mapping Variable Width, Streamside Management Zones for Water Quality Protection** *Donald J. Lipscomb and Thomas M. Williams, Clemson University*  
[Abstract](#) [Presentation](#)
- 11:50 AM **Discussion**

## Concurrent Session 1B: BMP Implementation Monitoring

- 10:30 AM **Approaches to Site Selection and Collecting On-the-Ground Data for BMP or Forest Practice Guideline Implementation Monitoring in the Eastern United States** *C. Blinn, University of Minnesota and Mike Phillips, Minnesota Dept. Natural Resources, Division of Forestry*  
[Abstract](#) [Presentation](#)
- 10:50 AM **Factors Affecting BMP Compliance in Maine: A Survey of Licensed Foresters and Loggers** *Stephanie Arnold Phillips and Andy Egan, University of Maine*  
[Abstract](#) [Presentation](#)
- 11:10 AM **Voluntary Implementation and Effectiveness Measures for Timber Harvesting BMPs on Nonindustrial Private Forest Lands in Kentucky** *Jeff Stringer and Tim Queary, University of Kentucky*  
[Abstract](#) [Presentation](#)
- 11:30 AM **A Review of Forestry Best Management Practices in West Virginia** *Jingxin Wang, Joe McNeel, Steve Milauskas, West Virginia University*  
[Abstract](#) [Presentation](#)
- 11:50 AM **Discussion**

## Concurrent Session 1C: Silvicultural Chemicals

- 10:30 AM **Retention of Colloidal Materials and Phosphorus from Simulated Run-off within Forested Streamside Management Zones (SMZs) of the Piedmont** *J. White, L. A. Morris, C. R. Jackson, and A. Pinho, University of Georgia*  
[Abstract](#) [Presentation](#)
- 10:50 AM **Herbicide Retention from Simulated Runoff within Forested Streamside Management Zones (SMZs) of the Piedmont** *A. P. Pinho, L. A. Morris, C. R. Jackson, W. J. White and P. B. Bush, University of Georgia*  
[Abstract](#) [Presentation](#)

## Concurrent Session 1C2: Timber Harvesting

- 11:10 AM **Fifteen Year Patterns of Sediment Removal By a Riparian Wetland as Influenced by Harvesting**  
*Gellerstedt, P., S. Warren, and W.M. Aust, Virginia Tech*  
[Abstract](#) [Presentation](#)
- 11:30 AM **Assessing Water Quality Impacts at Forest Road Stream Crossings**  
*S.E. Taylor, D.T. McLemore, L.A. Montgomery, R.A. Welch, K.H. Yoo, Auburn University and R.B. Rummer, USDA Forest Service, Auburn Alabama*  
[Abstract](#) [Presentation](#)
- 11:50 AM **Discussion**

## Plenary Session Three

- 1:00 PM **BMPs and Wildlife**  
*Robert J. Cooper, University of Georgia*  
[Abstract](#) [Presentation](#)
- 1:40 PM **BMPs in Special Management Areas**  
*Carl C. Trettin, USDA Forest Service, Charleston*  
[Abstract](#) [Presentation](#)
- 2:20 PM **Managing Water Quality in Wetlands with Forestry BMPs**  
*B. Rummer, USDA Forest Service, Auburn, Alabama*  
[Abstract](#) [Presentation](#)

## Concurrent Session 2A: Research Methods (continued)

- 3:20 PM **BMP Awareness of Mississippi Private Forest Landowners**  
*Andrew J. Londo, Mississippi State University*  
[Abstract](#) [Presentation](#)
- 3:40 PM **Using Harvest Impact Data to Design Effective BMPs**  
*Tim McDonald, Emily Carter, and Bob Rummer, USDA Forest Service, Auburn, Alabama*  
[Abstract](#) [Presentation](#)
- 4:00 PM **Hydrologic Characterization of Forested Headwater Streams in Southwest Georgia**  
*W. B. Summer, M. Miwa, M. H. Hughes, C. W. Hedman, R. T. Winn, International Paper; and S.W. Golladay, Joseph W. Jones Ecological Research Center*  
[Abstract](#) [Presentation](#)

## Concurrent Session 2A2: BMP Effectiveness Studies

- 4:20 PM **Post Harvest BMP Effectiveness**  
*Edwin A. Christopher, Jr., J.M. Visser, W.M. Aust, and R.M. Shaffer, Virginia Tech*  
[Abstract](#) [Presentation](#)
- 4:40 PM **Focusing on Forestry Best Management Practices in the Southern States: How Effective are They?**  
*J. Mcfero Grace III, USDA Forest Service, Auburn, Alabama*  
[Abstract](#) [Presentation](#)
- 5:00 PM **Discussion**

## Concurrent Session 2B: BMP Programs and Policies

- 3:20 PM **Riparian Management Practices in the Eastern US: A Summary of State Guidelines**  
*C. Blinn and M.A. Kilgore, University of Minnesota*  
[Abstract](#) [Presentation](#)
- 3:40 PM **Encouraging the Application of Sustainable Timber Harvesting Practices: A Review of Policy Tool Use and Effectiveness in the Eastern United States**  
*M.A. Kilgore and C. Blinn, University of Minnesota*  
[Abstract](#) [Presentation](#)
- 4:00 PM **South Carolina's Courtesy BMP Exam Program**  
*Darryl Jones, South Carolina Forestry Commission*  
[Abstract](#) [Presentation](#)
- 4:20 PM **The Burden of Proof: A Regional BMP Monitoring Protocol for Logging**  
*Roger Ryder, Maine Department of Conservation*  
[Abstract](#) [Presentation](#)
- 4:40 PM **Mississippi Best Management Practices Guidelines Video**  
*Andrew J. Londo, Mississippi State University*  
[Abstract](#) [Presentation](#)
- 5:00 PM **Discussion**

## Concurrent Session 2C: BMPs and Wildlife

- 3:20 PM **Forestry Habitat Management Guidelines for Vernal Pool Wildlife in New England**  
*Aram J.K. Calhoun, University of Maine and Phillip deMaynadier, Maine Department of Inland Fisheries and Wildlife*  
[Abstract](#)
- 3:40 PM **Response Of Stream Fish And Habitat To Riparian Thinning Using Full Tree And Cut-To-Length Mechanical Harvest Methods In North Central Minnesota**  
*Nathaniel A. Hemstad and Raymond M. Newman, University of Minnesota*  
[Abstract](#) [Presentation](#)
- 4:00 PM **Mascot for Biodiversity: An American Woodcock BMP**  
*Scot Williamson, Wildlife Management Institute, North Stratford, New Hampshire*  
[Abstract](#) [Presentation](#)

## Concurrent Session 2C2: Sensitive Sites

- 4:40 PM **Problems Associated with Forestry Operations Around Sensitive Aquatic Habitats: Hydrologic and Biologic Evaluation Summary**  
*Masato Miwa, International Paper*  
[Abstract](#) [Presentation](#)
- 5:00 PM **Discussion**

## Wednesday, April 17

### Plenary Session Four

- 8:00 AM **BMPs in Riparian Management Zones**  
*Sandy Verry, USDA Forest Service, Grand Rapids, Minnesota and Andy Dolloff, USDA Forest Service, Blacksburg, Virginia*  
[Abstract](#) [Presentation](#)
- 8:40 AM **BMPs For Roads, Skid Trails, Landings, and Fire Lines**  
*Lloyd W. Swift, Jr., USDA Forest Service, Otto, North Carolina*  
[Abstract](#) [Presentation](#)
- 9:20 AM **BMPs and Bioassessment of Logging Impacts in Streams and Wetlands**  
*Darold Batzer, University of Georgia and John Hutchens, U.S. Environmental Protection Agency*  
[Abstract](#) [Presentation](#)

### Concurrent Session 3A: BMP Effectiveness Studies (continued)

- 10:20 AM **Performance of Georgia's Best Management Practices Determined from Systematic Reconnaissance of Piedmont Clear Cut and Site Prepared Units**  
*Lane Rivenbark and C. Rhett Jackson, University of Georgia*  
[Abstract](#) [Presentation](#)
- 10:40 AM **Forestry SMZ Effectiveness in the Sand Clay Hills of Mississippi: Early Indications**  
*S.H. Schoenholtz, Oregon State University; E.D. Dibble, B. Young, Mississippi State University, and G.D. Carroll, University of Georgia*  
[Abstract](#) [Presentation](#)
- 11:00 AM **Evaluating Best Management Practices During Intensive Silviculture and Forest Chemical Application** - *Jeffery L. Vowell, Florida Division of Forestry and Russel B. Frydenborg, Florida Department of Environmental Protection*  
[Abstract](#) [Presentation](#)
- 11:20 AM **Evaluation of South Carolina BMP's To Protect Water Quality In Piedmont Streams**  
*Thomas M. Williams, Donal D. Hook, and Donald J. Lipscomb, Clemson University*  
[Abstract](#) [Presentation](#)
- 11:40 AM **Discussion**

### Concurrent Session 3B: Economics and Society

- 10:20 AM **Perceived Values from Best Management Practices in Mississippi**  
*Amanda L. Husak, Stephen C. Grado, and Steven H. Bullard, Mississippi State University*  
[Abstract](#) [Presentation](#)
- 10:40 AM **BMP Costs Associated with Erosion Control Measures for Skid Trails**  
*Scott Shouse, Jeff Stringer, Matthew Smidt, Jim Ringe, Randy Kolka, University of Kentucky and Matthew Pelkki, University of Arkansas-Monticello*  
[Abstract](#) [Presentation](#)

## Concurrent Session 3B2: BMPs for Site Productivity

- 11:00 AM **Loblolly Pine Response to Wet-Weather Harvest Disturbances**  
*M. Eisenbies, J. Burger, W. Aust, Virginia Tech and S. Patterson, MeadWestvaco Corporation*  
[Abstract](#) [Presentation](#)
- 11:20 AM **Methodology to Monitor Best Management Practices for Maintaining Site Productivity**  
*C. A. Gresham, Baruch Institute of Coastal Ecology and Forest Science and Phil Dougherty, MeadWestvaco Corporation*  
[Abstract](#) [Presentation](#)
- 11:40 AM **Discussion**

## Concurrent Session 3C: BMPs in Riparian Areas

- 10:20 AM **Sediment Trapping within Streamside Management Zones on Two Clearcut Sites in the Georgia Piedmont**  
*C. Rhett Jackson and Jason M. Ward, University of Georgia*  
[Abstract](#) [Presentation](#)
- 10:40 AM **Alteration of Water Quality and Sediment Loads Following Harvesting in a Streamside Management Zone in the Ouachita Mountains of Arkansas**  
*Hal O. Liechty, University of Arkansas-Monticello and Jami Nettles, Weyerhaeuser Company*  
[Abstract](#) [Presentation](#)
- 11:00 AM **Discussion**

## Plenary Session Five

- 1:30 PM **Costs of Forestry Best Management Practices in the South: A Review**  
*Fred Cabbage, Jonathan Scott and Susan Moore, North Carolina State University*  
[Abstract](#) [Presentation](#)
- 2:10 PM **Programs Assessing Implementation and Effectiveness of State Forest Practice Rules and BMPs in the West**  
*George Ice, National Council for Air and Stream Improvement; Liz Dent and Josh Robben, Oregon Dept. of Forestry; Pete Cafferata, California Dept. of Forestry and Fire Protection; and Jeff Light and Brian Sugden, Plum Creek Timber Company*  
[Abstract](#) [Presentation](#) [Paper](#)

## Plenary Session Six

- 3:30 PM **Research Needs**  
*Participant Input and Discussion*