

~~2021~~

~~2022~~

RADBUG 2023 – Welcome!

Madison, WI

August 8-9, 2023

# Meeting Outline – Day 1

## Monday, August 7

8:00 a.m.–5:00 p.m.

### Testing TAG

Assembly Room, 1st Floor

4:00 p.m.–6:00 p.m.

### Registration Opens

Madison Ballroom Foyer, 2nd Floor

## Tuesday, August 8

7:00 a.m.–5:00 p.m.

### Registration

Madison Ballroom Foyer, 2nd Floor

7:00 a.m.–8:00 a.m.

### Breakfast

Madison Ballroom, 2nd Floor

8:00 a.m.–10:00 a.m.

### General Session

Madison Ballroom, 2nd Floor

#### Welcome Remarks

Kelly Tomjanovich, P.E., *Wisconsin DOT*

#### Introductions

All

#### Opening Remarks

Josh Dietsche, P.E., *Wisconsin DOT*

#### AASHTOWare Overview

Ryan Fragapane, *AASHTO*

#### AASHTOWare Bridge Task Force Update

Todd Thompson, P.E., *South Dakota DOT*

#### FHWA Update

Tom Saad, P.E., *FHWA*

10:00 a.m.–10:30 a.m.

### Break

Madison Ballroom Foyer, 2nd Floor

10:30 a.m.–Noon

### General Session (cont'd)

Madison Ballroom, 2nd Floor

#### Using BrR for Rating Bascule Bridges

Andrew Smith, P.E., *Wisconsin DOT*

#### Streamlining Truss Bridge and Gusset Plate Rating

Tony Zhang, *CalTrans*

#### BrDR 7.5 Enhancement Highlights

Subhadeep Ghosh, P.E., *ProMiles*

10:30 a.m.–Noon

### Conference Office Hours

Conference Office

Herman Lee, P.E., *ProMiles*

Noon–1:00 p.m.

### Lunch

Madison Ballroom, 2nd Floor

1:00 p.m.–3:00 p.m.

### General Session (cont'd)

Madison Ballroom, 2nd Floor

#### Enhancing Bridge Load Rating Analysis: Key Considerations

Yanling Leng, Ph.D., P.E., *IMEG Corp*

#### Substructure Analysis Using BrR to Get Force Effects

Elizabeth Befikadu, P.E., *AI Engineers*

#### Load rating Timber Bent Caps Using BrDR software (a workaround approach)

Vinacs Murugesu, *CalTrans*

#### From the Desktop to the Cloud

Geoffrey Trees, *ProMiles*

#### BrDR 7.5 Installer Deep Dive

Jonathan Zdobinski and Anthony Baker, *ProMiles*

1:00 p.m.–3:00 p.m.

### Conference Office Hours

Conference Office

Herman Lee, P.E.

3:00 p.m.–3:30 p.m.

### Break

Madison Ballroom Foyer, 2nd Floor

3:30 p.m.–5:00 p.m.

### General Session (cont'd)

Madison Ballroom, 2nd Floor

#### Use of Advanced Concrete Member Alternative

Igor Chernioglo, P.E., *CalTrans*

#### Metal Culvert Ratings

Amjad Waheed, M.Sc, P.E., *Ohio DOT*

#### A Quick Guide to BrDR Support & Training

Mark Mlynarski, P.E., *ProMiles*

3:30 p.m.–5:00 p.m.

### 3rd-Party Forum

Capitol Ballroom A, 2nd Floor

#### Requirements and Needs Open Discussion

Geoffrey Trees and Kyle Plummer, P.E., *ProMiles*

5:00 p.m.

### Adjourn for the Day

## Tuesday, August 8

7:00 a.m.–5:00 p.m.

### Registration

*Madison Ballroom Foyer, 2nd Floor*

7:00 a.m.–8:00 a.m.

### Breakfast

*Madison Ballroom, 2nd Floor*

8:00 a.m.–10:00 a.m.

### General Session

*Madison Ballroom, 2nd Floor*

#### Welcome Remarks

Kelly Tomjanovich, P.E., *Wisconsin DOT*

#### Introductions

All

#### Opening Remarks

Josh Dietsche, P.E., *Wisconsin DOT*

#### AASHTOWare Overview

Ryan Fragapane, *AASHTO*

#### AASHTOWare Bridge Task Force Update

Todd Thompson, P.E., *South Dakota DOT*

#### FHWA Update

Tom Saad, P.E., *FHWA*

10:00 a.m.–10:30 a.m.

### Break

*Madison Ballroom Foyer, 2nd Floor*





*10:30 a.m.–Noon*

**General Session** *(cont'd)*

*Madison Ballroom, 2nd Floor*

**Using BrR for Rating Bascule Bridges**

Andrew Smith, P.E., *Wisconsin DOT*

**Streamlining Truss Bridge and Gusset Plate Rating**

Tony Zhang, *CalTrans*

**BrDR 7.5 Enhancement Highlights**

Subhadeep Ghosh, P.E., *ProMiles*

*10:30 a.m.–Noon*

**Conference Office Hours**

*Conference Office*

Herman Lee, P.E., *ProMiles*

*Noon–1:00 p.m.*

**Lunch**

*Madison Ballroom, 2nd Floor*

1:00 p.m.–3:00 p.m.

### **General Session** *(cont'd)*

*Madison Ballroom, 2nd Floor*

#### **Enhancing Bridge Load Rating Analysis: Key Considerations**

Yanling Leng, Ph.D., P.E., *IMEG Corp*

#### **Substructure Analysis Using BrR to Get Force Effects**

Elizabeth Befikadu, P.E., *AI Engineers*

#### **Load rating Timber Bent Caps Using BrDR software (a workaround approach)**

Vinacs Murugesu, *CalTrans*

#### **From the Desktop to the Cloud**

Geoffrey Trees, *ProMiles*

#### **BrDR 7.5 Installer Deep Dive**

Jonathan Zdobinski and Anthony Baker, *ProMiles*

1:00 p.m.–3:00 p.m.

### **Conference Office Hours**

*Conference Office*

Herman Lee, P.E.

3:00 p.m.–3:30 p.m.

### **Break**

*Madison Ballroom Foyer, 2nd Floor*

3:30 p.m.–5:00 p.m.

### **General Session** *(cont'd)*

*Madison Ballroom, 2nd Floor*

#### **Use of Advanced Concrete Member Alternative**

Igor Chernioglo, P.E., *CalTrans*

#### **Metal Culvert Ratings**

Amjad Waheed, M.Sc, P.E., *Ohio DOT*

#### **A Quick Guide to BrDR Support & Training**

Mark Mlynarski, P.E., *ProMiles*

3:30 p.m.–5:00 p.m.

### **3rd-Party Forum**

*Capitol Ballroom A, 2nd Floor*

#### **Requirements and Needs Open Discussion**

Geoffrey Trees and Kyle Plummer, P.E., *ProMiles*

5:00 p.m.

### **Adjourn for the Day**

# Meeting Outline – Day 2

## Wednesday, August 9th

7:00 a.m.–5:00 p.m.

### Registration

Madison Ballroom Foyer, 2nd Floor

7:00 a.m.–8:00 a.m.

### Breakfast

Madison Ballroom, 2nd Floor

8:00 a.m.–9:30 a.m.

### General Session (cont'd)

Madison Ballroom, 2nd Floor

#### BrR API Tools for OSOW Permitting and Emergency Vehicle Rating

Alex Pence, P.E. and Joe Barut, P.E., *Wisconsin DOT*

#### Load Rating Tool for Automated Permitting

Alan Buehrig, P.E., *Idaho TD*

#### BrDR Enhancement Selection Process

Mark Bucchi, P.E., *Louisiana DOTD*

9:30 a.m.–10:00 a.m.

### Break

Madison Ballroom Foyer, 2nd Floor

10:00 a.m.–Noon

#### AASHTOWare BrDR Fundamentals Training Session, Part 1

Capitol Ballroom A

Herman Lee, P.E. and Sreenivas Madhusudhanan, P.E., *ProMiles*

10:00 a.m.–11:00 a.m.

#### AASHTOWare BrR Training

Madison Ballroom, 2nd Floor

#### Metal Pipe and Metal Box Culverts

Krishna Kennelly, P.E., *ProMiles*

#### BrR 7.5 Implementation of MBE Specification Updates

Krishna Kennelly, P.E., *ProMiles*

10:00 a.m.–11:00 a.m.

#### AASHTOWare BrD Training

University Rooms C&D, 2nd Floor

#### Include Flange Lateral Bending in Analysis

Benjamin Flanagan, *ProMiles*

#### Steel Design Tool Demo and Q&A

Subhadeep Ghosh, P.E., *ProMiles*

11:00 a.m.–Noon

#### BrD/BrR Combined Business Meeting

Madison Ballroom, 2nd Floor

*Member Agencies Only*

#### Constitution Changes

#### Mentimeter/Strategic Planning Discussion

11:00 a.m.–Noon

#### Conference Office Hours

Conference Office

Mark Mlynarski, P.E., *ProMiles*

Noon–1:00 p.m.

### Lunch

Madison Ballroom, 2nd Floor

1:00–3:00 p.m.

#### BrR Business Meeting

Madison Ballroom, 2nd Floor

#### General Business Forum

*Member Agencies Only*

Melissa Hennessy, P.E., *Idaho TD*

#### BrD Business Meeting

University Rooms C&D, 2nd Floor

#### General Business Forum

*Member Agencies Only*

Joseph Albert, P.E., *New York State DOT*

1:00–2:00 p.m.

#### AASHTOWare BrDR Fundamentals Training Session, Part 2

Capitol Ballroom A

Sharanya Rao and Benjamin Flanagan, *ProMiles*

2:00–3:00 p.m.

Capitol Ballroom A

#### Non-Member Discussion

3:00 p.m.–3:30 p.m.

### Break

Madison Ballroom Foyer, 2nd Floor

3:30 p.m.–5:00 p.m.

#### General Session (cont'd)

Madison Ballroom, 2nd Floor

#### Report Tool Phase 1

Joe Albert, P.E., *New York State DOT*

#### Enhanced BrDR License Mechanism

Kyle Plummer, P.E., and Geoffrey Trees, *ProMiles*

#### Truss Gusset Plate

#### Capabilities and Limitations

Carolyn Kols, P.E., *ProMiles*

#### Closing Remarks

Kelly Tomjanovich, P.E., *Wisconsin DOT*

5:00 p.m.

#### Meeting Adjourns



## Wednesday, August 9th

7:00 a.m.–5:00 p.m.

### Registration

*Madison Ballroom Foyer, 2nd Floor*

7:00 a.m.–8:00 a.m.

### Breakfast

*Madison Ballroom, 2nd Floor*

8:00 a.m.–9:30 a.m.

### General Session *(cont'd)*

*Madison Ballroom, 2nd Floor*

#### BrR API Tools for OSOW Permitting and Emergency Vehicle Rating

Alex Pence, P.E. and Joe Barut, P.E., *Wisconsin DOT*

#### Load Rating Tool for Automated Permitting

Alan Buehrig, P.E., *Idaho TD*

#### BrDR Enhancement Selection Process

Mark Buccl, P.E., *Louisiana DOTD*

9:30 a.m.–10:00 a.m.

### Break

*Madison Ballroom Foyer, 2nd Floor*



10:00 a.m.–Noon

**AASHTOWare BrDR Fundamentals Training  
Session, Part 1**

*Capitol Ballroom A*

Herman Lee, P.E. and Sreenivas Madhusudhanan,  
P.E., *ProMiles*

10:00 a.m.–11:00 a.m.

**AASHTOWare BrR Training**

*Madison Ballroom, 2nd Floor*

**Metal Pipe and Metal Box Culverts**

Krishna Kennelly, P.E., *ProMiles*

**BrR 7.5 Implementation of MBE Specification  
Updates**

Krishna Kennelly, P.E., *ProMiles*

10:00 a.m.–11:00 a.m.

**AASHTOWare BrD Training**

*University Rooms C&D, 2nd Floor*

**Include Flange Lateral Bending in Analysis**

Benjamin Flanagan, *ProMiles*

**Steel Design Tool Demo and Q&A**

Subhadeep Ghosh, P.E., *ProMiles*

11:00 a.m.–Noon

**BrD/BrR Combined Business  
Meeting**

*Madison Ballroom, 2nd Floor*

*Member Agencies Only*

**Constitution Changes**

**Mentimeter/Strategic Planning Discussion**

11:00 a.m.–Noon

**Conference Office Hours**

*Conference Office*

Mark Mlynarski, P.E., *ProMiles*

Noon–1:00 p.m.

**Lunch**

*Madison Ballroom, 2nd Floor*





1:00–3:00 p.m.

### **BrR Business Meeting**

*Madison Ballroom, 2nd Floor*

### **General Business Forum**

*Member Agencies Only*

Melissa Hennessy, P.E., *Idaho TD*

### **BrD Business Meeting**

*University Rooms C&D, 2nd Floor*

### **General Business Forum**

*Member Agencies Only*

Joseph Albert, P.E., *New York State DOT*

1:00–2:00 p.m.

### **AASHTOWare BrDR Fundamentals Training Session, Part 2**

*Capitol Ballroom A*

Sharanya Rao and Benjamin Flanagan, *ProMiles*

2:00–3:00 p.m.

*Capitol Ballroom A*

### **Non-Member Discussion**

3:00 p.m.–3:30 p.m.

### **Break**

*Madison Ballroom Foyer, 2nd Floor*

3:30 p.m.–5:00 p.m.

### **General Session (cont'd)**

*Madison Ballroom, 2nd Floor*

### **Report Tool Phase 1**

Joe Albert, P.E., *New York State DOT*

### **Enhanced BrDR License Mechanism**

Kyle Plummer, P.E., and Geoffrey Trees, *ProMiles*

### **Truss Gusset Plate**

### **Capabilities and Limitations**

Carolyn Kols, P.E., *ProMiles*

### **Closing Remarks**

Kelly Tomjanovich, P.E., *Wisconsin DOT*

5:00 p.m.

### **Meeting Adjourns**



# Questions & Assistance

- AASHTO Staff
- Task Force
- Wisconsin DOT Staff



# Special Thanks To...

- Presenters
- ProMiles Staff
- Task Force Members
- RADBUG officers
- Ryan, Ben, and AASHTO Staff



# Introductions

- Name
- Where you work
- Position

