Funding Research to Solve Local Transportation Issues

Vicky Fout
ODOT Research Program
September 2019
ORIL – What is it?

Providing *real* solutions to *real* transportation problems on the local system ... through research
## ORIL – What is it?

### ORIL Board

<table>
<thead>
<tr>
<th>Organization</th>
<th>Voting Members</th>
</tr>
</thead>
</table>
| CEAO         | Mark Eicher (Muskingum)  
Steve Luebbe (Fayette)  
Warren Schlatter (Defiance)  
Jeremiah Upp (Fairfield) |
| OML          | Megan O’Callaghan (Dublin)  
Brian Thomas (Findlay)  
Steven Bergstresser (Springfield)  
James Young (Columbus) |
| OTA          | Greg Butcher* (Violet) |
| Academia     | Natassia Brenkus  
(The Ohio State University)  
Deogratias Eustace  
(University of Dayton) |
| ODOT         | Jennifer Elston (D8)  
Keith Smith (D8)  
Matt Chaney (D4)  
Chase Wells (CO) |

### Non-Voting (Support) Members

<table>
<thead>
<tr>
<th>ODOT Research</th>
<th>Ohio LTAP Center</th>
<th>FHWA</th>
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<tbody>
<tr>
<td>Vicky Fout</td>
<td>Mike Fitch</td>
<td>Frank Burkett</td>
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<tr>
<td>Michelle Lucas</td>
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* Board Chair
ORIL – What is it?

Funded by ODOT Research Program (SP&R-B)

27 projects to date
ORIL Projects

Investigation of In-Situ Strength of Various Construction/Widening Methods Utilized on Local Roads

• Establish range of structural coefficients for 19 most commonly used widening treatments

Defiance County cost savings $1.3 Million +
ORIL Projects

Storm Water Best Management Practices for Local Roadways / Storm Water BMP Tool Implementation Testing

- Screening tool for post-construction storm water BMPs

Download the tool: http://www.dot.state.oh.us/groups/oril/projects/Pages/BMP-Tool.aspx
ORIL Projects

Evaluation and Design of a TL-3 Bridge Guardrail System Mounted to Steel Fascia Beams

- TL3 rated post-mount design with transition system to guardrail

Eligible for federal-aid reimbursement

ORIL Projects

Optimizing the Effective Use of RAP in Local Roadways

- Identified optimum percentages of RAP in surface course mixtures of local roadways while maintaining durability

Promising initial results
Monitoring continues
ORIL Projects

Evaluation of Partial Depth Pavement Repairs on Routes Heavily Traveled by Amish Horse and Buggies - Phase 2

• Asphalt mixes with better resistance to damage and alternative horseshoe designs

Project ongoing Completion in April 2020
ORIL Idea Solicitation

FY2021 Idea Submission Open NOW

• Anyone can submit an idea
• Deadline: November 1, 2019
• Submit idea form online: http://www.dot.state.oh.us/groups/oril/IdeaSessions/Pages/Research-Idea-Form.aspx
ORIL Idea Solicitation

What is your problem/idea?
- Magnitude = How could it be addressed?

What is the benefit?
- Potential gain
- Potential impact
ORIL Idea Solicitation

TAC Recommendations
• Demonstrate support and need
• Researchers can choose to either be on TAC or submit proposal

Estimated Duration & Funding
• Not set in stone
• Shows how involved/extensive
ORIL – Idea Solicitation

What happens to my idea?
ORIL – Idea Solicitation

<table>
<thead>
<tr>
<th>Category:</th>
<th>Weight</th>
<th>Points (Value = 0-5)</th>
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<td>Alignment / Relevance to ORIL</td>
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<td>Potential Benefit of Research</td>
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<td>Potential Application / Implementability of Research Results</td>
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<td>General Consideration Items</td>
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<td><strong>TOTAL</strong></td>
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ORIL – Idea Solicitation

[Diagram showing process of idea solicitation, including brainstorming, proposing, and reviewing]

ORIL RFP Posted!
ORIL – Idea Discussion Site

- Interested in local-focused transportation research?
- Have an idea for a project, but aren’t sure if you want to submit it to the Board?

Join the Conversation!

http://oril.transportation.ohio.gov
Welcome to ORIL
Ohio's Research Initiative for Locals (ORIL) is Ohio's new research program for Local Public Agencies (LPAs). The purpose of ORIL is to provide research support for local agencies to address problems specific to the local roadway system.

The program is administered by a 15-person board composed of County Engineers, City Engineers, a Township Representative, Academics and ODOT Technical Experts. The board is supported by non-voting members from the Ohio LTAP Center, ODOT's Research Program and the FHWA Ohio Division Office.

For more information about the program, the board members and the general process administered by ORIL, explore the site starting with the links to the left.

Announcements
- ORIL Re-Posts RFP Request. Deadline September 27, 2019. (Posted 08/19/19)
- ORIL Now Accepting Research Ideas for the FY2021 Program (Posted 08/16/2019)
- ORIL Announces FY2020 Researcher Selections (Posted May 30, 2019)
- Final Report Now Available: Streamlining Local-let Federal-aid Transportation Processes in Ohio (Posted 05/15/19)
- Registration for Research Results Presentation OPEN

http://oril.transportation.ohio.gov
ORIL – Idea Discussion Site

Welcome to the ORIL Idea Discussion Site. This site provides those interested in local-focused transportation research an opportunity to share ideas, discuss issues and provide input on topics that could potentially become research projects in the future.

Why have an ORIL Idea Discussion Site?
The purpose is to encourage conversations about transportation issues that are important to local public agencies (LPAs). The goal is that through these discussions, potential research projects could be developed. Discussions can range from very specific items (e.g.: pony truss system inspections) to best practices (e.g.: snow and ice control) to general topics of interest (e.g.: connected/autonomous vehicles). While the primary focus and driving forces may differ amongst LPAs statewide, there is some commonality in the transportation issues all LPAs encounter. By discussing these items, opportunities to address them may become more evident. This could lead to more refined research idea submissions to the ORIL Board.

Who can participate?
Anyone can participate in the ORIL Idea Discussion Site. It is open to representatives from local public agencies, state agencies, federal agencies, consultants, academia, contractors, industry, associations, and planning organizations.

How does it work?
Use the links at the bottom of the page to either start a discussion or see and comment on active discussions. Complete the easy-to-use form and hit submit. Some basic contact information is requested just in case there is an error in the form submission (e.g.: character limit is reached and text is incomplete) and for internal tracking purposes to determine which groups (e.g.: local, state, academic, associations, consultants, etc.) utilize the site most. The actual postings to the site will be anonymous! No names or affiliations will appear on the site. The site will be updated with new discussions and comments on the first and third Fridays of each month.

What’s the catch?
This site is not for the formal submission of research ideas to the ORIL Board for funding consideration. The annual research idea solicitation process will still occur. Only Ideas submitted through that process will be considered for inclusion in ORIL’s program. For additional information on the Idea solicitation process, check out the ORIL Guidebook. To formally submit an idea to the Board for funding consideration, click here.

So what are you waiting for? Join the conversation!

Click here to start a discussion  Click here to see and comment on active discussions

http://oril.transportation.ohio.gov
ORIL – What’s the Benefit?

“Columbus is constantly trying new technology to create a more sustainable and cost-effective pavement. ORIL allows locals to fund research and have an objective review of a new technology or process.” - James Young, City Engineer, City of Columbus

“Research serving local program goals covers areas that ODOT would not usually consider. We have already begun to see the effects of having ORIL in place and Ohio has been reaping the benefits of its results.” - Greg Butcher, Engineer, Violet Township
ORIL – What’s the Benefit?

“Now the local agencies can move forward with more confidence, knowing their materials have the ability to maintain and possibly enhance pavement capacity while reducing total costs, all based on research.” - Warren Schlatter, Defiance County Engineer regarding the project Investigation of In-Situ Strength of Various Construction/Widening Methods Utilized on Local Roads

“I think this program will continue to provide a great opportunity for Ohio’s local agencies to address a variety of transportation-related issues and challenges.” - Mike Fitch, Ohio LTAP Center
ORIL Contact Information

• Visit the Website:
  • http://oril.transportation.ohio.gov

• Email us:
  • ORIL@dot.ohio.gov

FY2021 Idea Solicitation Closes November 1, 2019

Questions?
Thank You!