Providing Research Support for Townships

Michelle Lucas
Vicky Fout
ODOT's Office of Statewide Planning & Research

Ohio's local system:
- 84% of Ohio's center-lane miles
- 68% of Ohio's bridges

ORIL History
- Providing real solutions to real transportation problems
- Collaborative effort to improve Ohio's local transportation system
ORIL Board

<table>
<thead>
<tr>
<th>Organization</th>
<th>Voting Members</th>
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<tbody>
<tr>
<td>CEN</td>
<td>Mark Eicher (Muskingum)</td>
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<td></td>
<td>Steve Luttrell (Fayette)</td>
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<td></td>
<td>Warren Schlatter (Defiance)</td>
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<td>OML</td>
<td>Megan O’Callaghan (Dublin)</td>
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<td></td>
<td>Brian Thomas (Findlay)</td>
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<td>Steven Bergstresser (Springfield)</td>
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<td></td>
<td>James Young (Columbus)</td>
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<td>ODOT</td>
<td>Greg Butcher (Violet)</td>
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<td></td>
<td>Jennifer Elston (D8)</td>
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<td></td>
<td>Matt Cheney (D4)</td>
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<td></td>
<td>Keith Smith (D8)</td>
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<td></td>
<td>Chase Wells (CO)</td>
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<tr>
<td>Academia</td>
<td>Natassia Brenkus (The Ohio State University)</td>
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<td>Deogratias Eustace (University of Dayton)</td>
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Non-Voting (Support) Members

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<thead>
<tr>
<th>ODOT Research</th>
<th>Ohio LRMP Center</th>
<th>FHWA</th>
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<tbody>
<tr>
<td></td>
<td>Vicky Fout</td>
<td>Mike Fitch</td>
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<tr>
<td></td>
<td>Michelle Lucas</td>
<td>Frank Burnett</td>
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ORIL Mission

* ORIL develops, funds and oversees transportation research projects to meet the needs of local agencies for the safety and economic well-being of the traveling public and Ohio.

ORIL Program Design

* Four Phases

1. Idea Generation
2. Project Execution
3. Results Implementation
4. Program Assessment
ORIL Program: Phase 1

Idea Generation

ORIL Program: Phase 2

- Project Execution
- Oversees Technical Direction
- Executes Scope of Work
- ORIL Board
- ODOT Research Section
- Researchers
- TACs
- Manager Administrative Tasks

ORIL Program: Phase 3

- Results Implementation
- Emphasis on Results
- Demonstrating ROI
ORIL Program: Phase 4

- Program Assessment

- Strategic Research Plan
- Individual Projects
- Processes & Criteria
- Implementation Activities

ORIL Funding

FY 2015-2021
4,000,000

Four million and zero cents
Support local research during FY 2014-2021 ODOT Research Program

- Used for research expenses only
- Contracted research projects
- Funds & contracts managed by ODOT
- Not for capital improvements
- Not for standard maintenance activities
- Not a grant program

Show me the 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 of $1.3 Million +

Best Practices for Chip Sealing Low-Volume Roads in Ohio

- Matrix of best practices as defined in literature and by local public agencies on 17 different chip sealing aspects

Structural Benefits of Concrete Paving of Steel Culvert Inverts

- Series of quick reference tables to help determine actions required and how much reinforcement may be needed for field paving
- Flow chart for engineering procedures for corrugated metal pipes and corrugated metal pipe arches
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
- Task Force with Amish, townships, counties and ODOT to pursue implementation of results

ORIL Program

- What’s in it for me?
  - Your questions – Your answers
  - Results you can use
  - Research is an extension of your staff
  - Direct access to experts
  - Unbiased, third-party, expert analysis
  - Collaboration and partnership

ORIL Involvement

- How can I get involved with ORIL?
ORIL Involvement

• How can I get involved with ORIL?
  • Submit a Research Idea for funding (August 2020)

ORIL Research Idea Form

1) What is your problem/idea? 3) TAC recommendations
• Magnitude of the issue • Demonstrates support & need
2) What is the benefit? 4) Estimated duration & funding
• Potential gain/impact • Demonstrates how extensive/involved

ORIL Involvement

• How can I get involved with ORIL?
  • Submit a Research Idea for funding (August 2020)
  • Join a Technical Advisory Committee

Pending New ORIL Projects for FY2021

- Investigation of Asphalt Deterioration Under Tree Canopy
- Developing Long Lasting & Cost Effective Pothole Patches for Local Roads
- Self-Healing of Concrete Cracks with Bacteria
- Pervious Pavements – Water Quality
- Ultra-High Performance Concrete Using Local Materials for Bridge Applications

ORIL Involvement

• How can I get involved with ORIL?
  • Submit a Research Idea for funding (August 2020)
  • Join a Technical Advisory Committee
  • Join the ORIL Board

- Contact the Ohio Township Association
- New township representative term: January 1, 2021 – December 31, 2024
ORIL Involvement

• How can I get involved with ORIL?
  • Submit a Research Idea for funding (August 2020)
  • Join a Technical Advisory Committee
  • Join the ORIL Board
  • Post to the ORIL Idea Discussion Site

Join the conversation!

ORIL Idea Discussion Site

Welcome to ORIL.

The Image and Information Research Laboratory (ORIL) is a collaborative research program focusing on the development of innovative and effective methods for improving image and information management and analysis. ORIL encourages collaboration between researchers and industry partners to advance the field of image and information science.

ORIL Idea Discussion Site

Join the conversation!

ORIL Idea Discussion Site

Welcome to ORIL.

The Image and Information Research Laboratory (ORIL) is a collaborative research program focusing on the development of innovative and effective methods for improving image and information management and analysis. ORIL encourages collaboration between researchers and industry partners to advance the field of image and information science.

Join the conversation!
ORIL Calendar

- What happens when?
- FY 2021 Program
  - RFPs post by February 28, 2020
  - RFP Solicitation closes April 1, 2020
  - ORIL Board Researcher Selection May 19, 2020
  - Project may begin starting July 1, 2020 (based on contract negotiations)

ORIL Calendar

- New Calendar – for FY2022 Program

<table>
<thead>
<tr>
<th>Month</th>
<th>Event</th>
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<tbody>
<tr>
<td>January</td>
<td>RFP Posting (mid)</td>
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<tr>
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<td>Fiscal year starts on 1st – new contracts can begin</td>
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<tr>
<td></td>
<td>ORIL Board Meeting – Joint Meeting (late)</td>
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<tr>
<td>February</td>
<td>ORIL Board Meeting – Program Review (early)</td>
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<tr>
<td>March</td>
<td>Creativity for Proposed Solicitations (early)</td>
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<td></td>
<td>Ideas Solicitation (reviews early)</td>
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<tr>
<td>April</td>
<td>TACs &amp; Board review proposals</td>
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<tr>
<td>May</td>
<td>ORIL Board Meeting – Researcher Selection (early)</td>
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<td></td>
<td>DOT’s TRP RFAs (progress, review, &amp; recommendations to FHWA for eligibility approval – inclusive of ORIL projects) (mid)</td>
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<tr>
<td>June</td>
<td>Final negotiations begins</td>
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<td></td>
<td>ORIL Board approves RFP for posting – online process (mid)</td>
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<tr>
<td>July</td>
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<tr>
<td>August</td>
<td>ORIL Board Meeting – Idea Prioritization, TAC Establishment, and Chair Election (mid)</td>
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<tr>
<td>September</td>
<td>TACs &amp; Board review proposals</td>
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<tr>
<td>October</td>
<td>ORIL Board Meeting – Researcher Selection (mid)</td>
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<td></td>
<td>ODOT’s SP&amp;R2 program book submission to FHWA for eligibility approval – inclusive of ORIL projects (by 31st)</td>
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<tr>
<td>November</td>
<td>RFP Development</td>
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<tr>
<td>December</td>
<td>Negotiations with selected researchers begins</td>
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<td>ORIL Board approves RFP for posting – online process (mid)</td>
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</tbody>
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ORIL Program

- Visit the Website
  - [http://oril.transportation.ohio.gov](http://oril.transportation.ohio.gov)

- Email Us:
  - ORIL@dot.state.oh.us

- Call Us:
  - 614-844-4935 (Michelle Lucas, ODOT Research)
  - 614-488-3029 (Kicky Fout, ODOT Research)
  - 614-387-7368 (Mike Fitch, Ohio LTAP Center)

Questions? Thank You!