

Jan Olek
School of Civil Engineering
Purdue University

RESEARCH GRANTS AND CONTRACTS (LAST 3 YEARS ONLY)

- Development of Materials and Design Parameters for High-Performance Concrete Bridge for SR 43, FHWA/INDOT/JTRP (August '97 - August '05)
- Performance Related Specifications (PRS) for Concrete Pavements in Indiana, FHWA/INDOT/JTRP (August '99 - August '05)
- Interaction Between Microcracking, Cracking and Reduced Durability of Concrete, FHWA/INDOT/JTRP (August '00 - April '03)
- Performance Evaluation of UTW using Full-Scale Accelerated Pavement Testing Facility, FHWA/INDOT/JTRP (November '01 - October '04)
- Interim Planning Activities for a Future Strategic Highway Research Program, NCHRP (April '02 - April '03)
- Dowel Bars Retrofit Mix Design and Specifications, FHWA/INDOT/JTRP (January '03 - December '04)
- Expansion of Concrete Technology to the INDOT Districts and Concrete Industry in Indiana, FHWA/INDOT/JTRP (January '03 - October '04)
- Porous Concrete for Pavement/Tire Noise Interaction, Portland Cement Association (PCA) (June '03 - May '04)
- Potential for Acceleration of ASR in the Presence of Pavement Deicing, Clemson University/FAA (May '04 - May '06)
- North Central Superpave Center Operations (continuous)
- Initiative For Formulating a Long-Range Research Plan For the Department of Transportation, FHWA/INDOT/JTRP (August '99 - November '05)
- Interaction Between Micro-Cracking, Cracking and Reduced Durability of Concrete: Developing Methods for Quantifying the Influence of Cumulative Damage in Life-Cycle Modeling, FHWA/INDOT/JTRP (August '00 - November '04)
- Performance Evaluation of Ultra-Thin Whitetopping Using Large-Scale APT Facility, FHWA/INDOT/JTRP (November '01 - January '06)
- Risk Analysis of INDOT Implementation of the Maturity Concept, FHWA/INDOT/JTRP (September '02 - February '05)
- High Performance Concrete Bridge Decks - Fast Track Implementation, FHWA/INDOT/JTRP (January '04 - June '05)
- Optimization of Mixture Proportions for Concrete Pavements, FHWA/INDOT/JTRP (January '04 - December '05)
- Specifications for Flowable Fill in Indiana, FHWA/INDOT/JTRP (January '04 - December '05)
- Proposal for Testing of Paving Units Manufactured Using Foundry Sand, Atlas Foundry (November '04 - February '05)
- Reducing Noise of Concrete Pavement by Modifying Its Surface Characteristics, Portland Cement Association (June '03 until expended)
- Investigation of Premature Distress around Joints in PCC Pavements, FHWA/INDOT/JTRP (November '05 - December '06)

- Updating Physical and Chemical Characteristics Data for Fly Ash in Concrete, FHWA/INDOT/JTRP (January '06 - December '07)
- Updating Physical and Chemical Characteristics Data for Fly Ash in Concrete, FHWA/INDOT/JTRP (January '06 - December '12)
- PCC Properties to Support w/c Determination for Durability, FHWA/INDOT/JTRP (January '06 - December '07)
- Continued Monitoring of Indiana's SPS-9A Site, FHWA/INDOT/JTRP (October '05 – October '09)
- Rapid-Setting, Self-Compacting Concrete, Northwestern University/ACBM Center, (October '05 - October '06)
- Rapid-Setting, Self-Compacting Concrete, Northwestern University/ACBM Center, (October '06 – October '07)
- Field Trials of Rapid Setting Materials, FHWA/INDOT/JTRP, (January '06 – December '10)
- Performance Evaluation of Ultra-Thin Whitetopping Using Large-Scale APT Facility, JTRP:INDOT/DOT, (August '06 – March '07)
- Specifications for Flowable Fill, JTRP:INDOT/DOT, (April '06 – June '06)
- Investigation of Anti-Icing Chemicals and Interactions, JTRP:INDOT/DOT, (January '07 – December '09)
- National Center for Asphalt Technology/FHWA, (May '06 – December '07)