

2013-2014 NACOE Research Program

NACoE Project
Number

Title

Pavements

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| P2 | Stabilisation Practices in Queensland |
| P14 | Performance of Bitumen Treated Base Pavements in Roma and Nanango |
| P16 | Assesment Foam Bitumen Performance |
| P10 | Characterisation of Asphalt Fatigue at Queensland Pavement Temperatures |
| P9 | Cost effective design of thick asphalt pavements: High Modulus Asphalt Implementation |
| P3 | Commissioning of NACoE support tools such as the Hamburg Wheel Tracker |
| P20 | Reviewing asphalt as a surfacing for highly trafficked highways in Queensland |
| P4 | Structural Performance of unbound granular material modified C grading |
| P11 | Review unbound pavement materials using wet / dry strength variation testing limits |
| P15 | Monitor high strength granular base and seal trial (Trackstar Alliance Project) |
| P5 | Review TMR's construction specifications (against best practice) to deliver desired surfacing performance |
| P18 | Polymer Modified Emulsion: Trials, Specifications and Design Methods |
| P19 | Performance of sprayed sealed surfacings in tropical climates |
| P12 | Field validation of 3D Noise Modulated Ground Penetration Radar |

Asset Management

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| A3 | Improved asset management practice through enhanced pavement treatment selection and modeling |
| A4 | Accounting for life cycle costing implications and network performance risks of rain and flood events |
| A5 | Incorporating uncertainty in PMS Modelling |
| A6 | Update of Skid Resistance Management Plan |
| A7 | Evaluate the benefit of Point Cloud Data and potential automated transfer to ARMIS or 12D |

Structures

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| S1 | Measurement of Bridge Vehicle Interaction under live load |
| S2 | Structural health monitoring of existing bridges |
| S3 | Deck unit bridge deck analysis under live load |

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S6 Review of Bridge Asset Management System

Other

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|----|---|
| R1 | ITS Equipment Evaluation and Type approval |
| R5 | Evaluating the use of vehicle to interaction technology for the management of commercial vehicles in Queensland |
| R8 | The effect of improved speed compliance on design speed |
| R9 | Investigate road user and operational benefits to TMR by improved lane use management |
| R2 | Formulate Queensland supplements for the Austroads guide to Traffic Management |
| R3 | Framework for Traffic Management Product Evaluation and Approval |
| R7 | Monitoring and evaluation of safety treatment performance on the Bruce Highway |
| O2 | Establish and maintain a long term trial research database |