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| Session 1A: April 4, 2018 - 9:00am - 10:20am | | | Session 1B: April 4, 2018 - 9:00am - 10:20am | | |
| Topics: Intelligent Transportation Systems (ITS) | | | Topics: Pavements | | |
| Room: Gentilly | | | Room: Frenchman II | | |
| Moderator: | | | Moderator: | | |
| Time | Title | Authors | Time | Title | Authors |
| 9:00 AM | Improving the Transportation System Performance in the Baton Rouge Area, LA, through Supply- and Demand-Oriented Measures for Mitigating Traffic Congestion | Samir Ahmed, Osama Osman and Julius Codjoe | 9:00 AM | Non-Destruction Detection of Moisture Damage in Pavements Using Ground Penetrating Radar | Mohammad Bashar, Mostafa Elseifi, Momen Mousa, Zhongjie Zhang and Samer Lahouar |
| 9:20 AM | Relationship between Road Network Characteristics and Traffic Safety | Hatim Sharif and Samer Dessouky | 9:20 AM | Evaluation of Comparative Damaging Effects on Flexible Pavements From Multiple Truck Axles | Stefan Romanoschi, Athanassios Papagiannakis, Mohsen Talebsafa, Constantin Popescu and Rajesh Kaphle |
| 9:40 AM | Study the Impacts of Freight Consolidation and Truck Sharing on Freight Mobility | Tieming Liu, Devaraja Radha Krishnan and Chaoyue Zhao | 9:40 AM | SIMPLIFIED APPROACH FOR STRUCTURAL EVALUATION OF FLEXIBLE PAVEMENTS AT THE NETWORK LEVEL | Mena Souliman, Stefan Romanoschi, Samer Dessouky, Karthikeyan Loganathan and Mayzan Isied |
| 10:00 AM | Emission Analysis of Diesels Derived from Biomass used for Hybrid Transportation Fleet | Hongbo Du, Arndreya Howard and Raghava Kommalapati | 10:00 AM | Structural Health Monitoring using Magnetic Shape Memory Alloy Cables in Concrete | Allen Davis, Mirmilad Mirsayar, Emery Sheahan and Darren Hartl |
| Session 2A: April 4, 2018 - 10:40am - 12:00pm | | | Session 2B: April 4, 2018 - 10:40am - 12:00pm | | |
| Topics: Policy Planning | | | Topics: Geotechnical | | |
| Room: Gentilly | | | Room: Frenchman II | | |
| Moderator: | | | Moderator: | | |
| Time | Title1 | Authors | Time | Title | Authors |
| 10:40 AM | Incentive Program for Closure of Grade Crossings in the United States: A State-of-the-Practice Synthesis | Julius Codjoe, Samira Soleimani and Seth J. Ledet | 10:40 AM | DEVELOPMENT OF FIELD-FRIENDLY MECHANICAL CHARACTERIZATION METHOD FOR COMPACTED UNBOUND AGGREGATES | Douglas D. Cortes and Paola Bandini |
| 11:00 AM | Current Practices for Recruiting and Retaining Qualified Workers at State Transportation Agencies | Julia Hernandez, Kristal Metro, Chris Harper, and Susan Bogus Halter | 11:00 AM | Environmentally-friendly and Sustainable Soil Stabilization for Transportation Infrastructure | Rinu Samuel, Oscar Huang, Aritra Banerjee, Miladin Radovic and Anand Puppala |
| 11:20 AM | Sustainable and Equitable Financing for Pedestrian Infrastructure Maintenance and Reconstruction | Alexis Corning-Padilla and Gregory Rowangould | 11:20 AM | Prediction and Rehabilitation of Highway Embankment Slope Failures in a Changing Climate | Navid H. Jafari, Jack Cadigan, Burak Boluk, Tejo V. Bheemasetti and Anand J. Puppala |
| 11:40 AM | Investigating Problem of Distracted Drivers on Louisiana Roadways | Xiaoduan Sun, M. Ashifur Rahman, and Yi He | 11:40 AM | Understanding the Influence of Subsurface Geologic Faulting on Transportation Infrastructure, Southeast Louisiana | Chris Young, Elizabeth C. McDade, Nancye H. Dawers and David B. Culpepper |
| Session 3A: April 4, 2018 - 1:30pm - 3:10pm | | | Session 3B: April 4, 2018 - 1:30pm - 3:10pm | | |
| Topics: Structures | | | Topics: Asphalt materials | | |
| Room: Gentilly | | | Room: Frenchman II | | |
| Moderator: | | | Moderator: | | |
| Title | Title | Authors | Title | Title | Authors |
| 1:30 PM | Integrated Health Monitoring and Reinforcement of Transportation Structures with Optimized Low-Cost Multifunctional Braided Cables | H. Ozcan, J. Ma and Ibrahim Karaman | 1:30 PM | Use of Nanoclays as Alternatives of Polymers Toward Improving Performance of Asphalt Binders | Mm Tariq Morshed, Mohammad Hassan and Zahid Hossain |
| 1:50 PM | Coastal Bridges under Hurricane Stresses along the Texas and Louisiana Coast | Reza Nasouri, Adolfo Matamoros, Firat Testik and Arturo Montoya | 1:50 PM | Evaluation of Polymer Degradation Due to Aging in Asphalt Binder and Determination of Polymer Content in Asphalt Emulsion Using an Extensional Deformation Test | Roksana Hossain, Waleed Mohammed Omer and Nazimuddin M. Wasiuddin |
| 2:10 PM | Design Considerations in the Use of Unmanned Aerial Vehicles for the Purpose of Bridge Inspection | Paul Darby | 2:10 PM | Evaluation of Effects of Moisture on Asphalt Pavements | Sumon Roy and Zahid Hossain |
| 2:30 PM | Retrofitting Corroded Metal Culverts using GFRP Composites | Rahulreddy Chennareddy, Susan Bogus Halter and Mahmoud Reda Taha | 2:30 PM | Enhancing the Durability and the Service Life of Asphalt Pavements Through Innovative Light | Sharareh Shirzad, Marwa Hassan, Max Aguirre, Samuel Cooper, Ioan Negulescu and Louay Mohammad |
| 2:50 PM | Multi-Hazard Risk Analysis of Bridges Considering Climate Change | Omid Khandel and Mohamed Soliman | 2:50 PM | Development of a Self-healing and Rejuvenating Mechanism for Asphalt Mixtures containing Recycled Materials | Max Aguirre, Marwa Hassan, Sharareh Shirzad, Samuel Cooper, Ioan Negulescu and Louay Mohammad |
| Session 4A: April 4, 2018 - 3:30pm - 5:10pm | | | Session 4B: April 4, 2018 - 3:30pm - 5:10pm | | |
| Topics: Structures | | | Topics: Concrete materials | | |
| Room: Gentilly | | | Room: Frenchman II | | |
| Moderator: | | | Moderator: | | |
| Time | Title | Authors | Time | Title | Authors |
| 3:30 PM | Use Ultra-High Performance Fiber-Reinforced Concrete (UHP-FRC) for Fast and Sustainable Repair of Pavement | Ashish Karmacharya and Shih-Ho Chao | 3:30 PM | Use of Rice Hull Ash (RHA) as a Sustainable Source of Construction Materials | Kazi Islam, Mohammad Badrul Ahsan and Zahid Hossain |
| 3:50 PM | Deterministic and probabilistic modelling framework of electrochemical/corrosion behavior of reinforced concrete specimens exposed in Marine environments | Changkyu Kim, Ahmad Karayan, Doeun Choe, Ayman Okeil, Mahmoud Taha, Pedro Castro and Homero Castaneda-Lopez | 3:50 PM | Low Fiber Content PVA-ECC for Transportation Infrastructure | Gabriel Arce, Hassan Noorvand, Marwa Hassan and Tyson Rupnow |
| 4:10 PM | Coastal Bridges under Hurricane Stresses along the Texas and Louisiana Coast | Reza Nasouri, Adolfo Matamoros, Firat Testik and Arturo Montoya | 4:10 PM | UHPC Overlays on Concrete Bridge Decks | William Toledo, Ahmed Al-Basha, Craig Newton and Brad Weldon |
| 4:30 PM | High School Students Building and Using Sensors Towards Smart Management of Transportation Systems | Fernando Moreu, Christopher Lippitt, Rhytham Soni, Ali Ozdagli, Bideng Liu, Xiaomeng Li, Emmanuel Ayorinde and Su Zhang | 4:30 PM | Characterizing and understanding Self-Healing microcapsules embedded in reinforced concrete structures exposed to corrosive environments | Reece Goldsberry, Jose Milla, Ahmad Ivan Karayan, Marwa Hassan and Homero Castaneda-Lopez |
| 4:50 PM | Development of a thermal energy harvester for powering structural health monitoring systems in remote areas | Samer Dessouky, Athan Papagiannakis, Utpal Datta, Andrew Ortega and Aydin Karsilyan | 4:50 PM | The influence of osmotic pressure on the deformation of concrete exposed to sulfate solution | Syeda F. Rahman and Zachary C. Grasley |