

Ashish Walia

Scientist
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Current Position

Currently working as Scientist in Flexible Pavement Division of CSIR-Central Road Research Institute, New Delhi since December 2020.

Education

- Doctor of Philosophy, Indian Institute of Technology Roorkee, India (2017 - Cont.).
Research Topic: “Development of In-depth Temperature Prediction Model for Flexible Pavement” under the guidance of Prof. Rajat Rastogi, Prof. Praveen Kumar and Prof. S. S. Jain.
- Master of Technology, Indian Institute of Technology Roorkee, India (2013-2015).
Graduated in Transportation Engineering with First division.
Dissertation Title: “Effect of Road Roughness and Geometric Alignment on Free Flow Speed of Two-Lane Rural Roads” under the guidance of Prof. Satish Chandra and Dr. C.H. Ravi Sekhar.
- Bachelor of Technology, G B Pant University of Agriculture and Technology, India (2009-2013).
Graduated in Civil Engineering with First division.

Professional Experience

- Worked as Assistant Professor in the Department of Civil Engineering, DIT University, Dehradun, India. (2015-2017).

Projects

- Development of simplified approach for deflection analysis of flexible pavements funded by CRRI.
- Development of high strength and fast curing cementitious stabilized base layer funded by NHAI.
- Pavement design for 60-meter and 45-meter ROW roads under Greater Noida Industrial Development Authority
- Evaluation for strengthening of 24-meter roads of Sector 10, Greater Noida.

Research Publications

- Walia, A., Rastogi, R., Kumar, P. and Jain, S.S. (2021) “Determination of Effective Depth to Measure Temperature required for Structural Evaluation of Asphalt Pavements”, Journal of Transportation Engineering, Part B: Pavements, Vol. 147 (3).
- Walia, A., Rastogi, R., Kumar, P. and Jain, S.S. (2021) “Reviewing methods for determination of Dielectric Constant required to Calibrate GPR Study for Asphalt Layers” IOP Conference Series: Materials Science and Engineering, Vol. 1075(1).
- Sharma, A., Kumar, P. and Walia, A. (2019) “Use of Recycled Materials in WMA – Future of Greener Road Construction”, 15th World Conference on Transport Research (WCTR), May 26-31, 2019, Mumbai.
- Walia, A., Rastogi, R., Kumar, P. and Jain, S.S. (2019) “Pavement Evaluation Through Non-Destructive Technique – A Way Forward”, International Conference of Transportation Infrastructure Projects – Conception to Execution (TIPCE), January 07-10, 2019, Roorkee.
- Kumar, P., Walia, A. and Chaudhary, A. (2018) “Effect of Seasonal Variation on FWD Response of Moderate Traffic Volume Road”, IRC Annual Session, November 22-25, 2018, Nagpur.
- Walia, A., Kumar, P. and Jain, S.S. (2018) “Review on development of Back calculation Methodologies adopted for determining Pavement Responses using FWD”, 5th Colloquium on Transportation Systems Engineering and Management (CSTEM), May 17-19, 2018, Warangal.
- Chandra, S., Sekher, C.H.R. and Walia, A. (2015) “Effect of Roadway condition on Free Flow speed of Two-lane Inter-city roads”, 3rd Conference of transportation Research Group of India (3rd CTRG), December 17-20, 2015, Kolkata.

Awards

- **Best Paper Award** for paper presented in International Conference “Transportation Infrastructure Projects – Conception to Execution” during January 07-10, 2019 at IIT Roorkee.
- **Best Poster Award** for paper presented in 3rd Conference of the Transportation Research Group of India during December 17-20, 2015 in Kolkata.

Courses/Workshops Attended

- Workshop on “Induction Program for Newly Recruited Scientists” organized by CSIR-HRDC during March 01-10, 2021.
- STC on “Advanced Materials for Highway Construction” organized by Punjabi University, Patiala during October 16-20, 2020.
- FDP on “Transport Infrastructure Asset Management” organized by NIT Surathkal during September 21-25, 2020.
- FDP on “Recent Development in Cement Concrete Pavements: Various cementitious materials, admixtures, testing protocols, mix design and pavement design” organized by RGUKT during September 07-11, 2020.
- STC on “Emerging Trends in Highway Engineering and Infrastructure Development” organized by NIT Jalandhar during June 23-27, 2020.
- GIAN course on “Road Traffic Safety” organized by IIT Roorkee during Sept 30 – Oct 04, 2019.
- QIP Course on “Big Data Analytics for Urban Planning and Management” organized by IIT Roorkee during June 06-10, 2016.
- Workshop on “Innovative Construction Machinery, Materials and Methods” organized by ISCMS and IIT Roorkee during October 27-27, 2015.