D W A Y N E A . H E N C L E W O O D

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EDUCATION

Georgia Institute of Technology, Atlanta, GA
- Doctor of Philosophy in Civil Engineering 2007 - Present

University of Massachusetts Amherst, Amherst, MA
- Master of Science in Civil Engineering 2007

College of the Holy Cross, Worcester, MA
- Bachelor of Arts in Physics 2004

EXPERIENCE

Research

Georgia Institute of Technology, Atlanta, GA 2007 – Present
Graduate Research Assistant
- Developing a Methodology to Estimate and Predict Travel Time along Arterial Streets in Real Time Using Available Point Detectors.

University of Massachusetts Amherst, Amherst, MA 2006-2007
Graduate Research Assistant
- Developing a Dynamic-Interactive-Vehicle Model for Microscopic Traffic Simulation.
- Presented a traffic calming report to the Department of Public Works of the City of Northampton highlighting possible committee structures to employ traffic calming implementations and various strategies and methodology to calm traffic.
- Aided the University of Massachusetts Human Performance Laboratory in conducting driving-study based research on driver behavior in a work zone given a simulated cell phone task.
- Performed several traffic performance analysis including turning movement counts and intersection delay to be used in planning for development.

College of the Holy Cross, Worcester, MA 2002-2004
Undergraduate Research Assistant
- Responsible for acquisition and analysis of data and assemblage of apparatus needed in the laser cooling of Rubidium (85RB) atoms.
- Produced an atomic beam using laser-exited Rubidium (85RB) atoms.
- Assembled necessary experiment apparatus to maintain on going research.
- Managed the Atomic Laboratory, overseeing ongoing experiments.

Teaching

University of Massachusetts Amherst, Amherst, MA 2006-2007
Teaching Assistant
- Graded and evaluated students' assignments and examinations for a course in Transportation Engineering.

St. George's College High School, Kingston, Jamaica 2004-2005
Teacher

- Taught Physics to 11th graders through structured coursework, laboratory exercises and test evaluations according to the syllabus.
- Taught Integrated Science to 8th graders and Mathematics to 9th and 10th graders.

St. George's College High School, Kingston, Jamaica 2004-2005
Track and Field Coach

- Provided technical guidance, strengthening and conditioning for high school throwers.

St. George's College High School, Kingston, Jamaica 2001
Tutor

- Tutored struggling 8th and 9th graders in Mathematics and Integrated Science.

PUBLICATIONS / PRESENTATIONS

Papers in Refereed Journals

- Roach, Timothy and Dwayne Henclewood. Novel Rubidium Atomic Beam with an Alkali Dispenser Source. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Film*, Volume 22, Issue 6, 2004.

Papers in Refereed Proceedings

- Henclewood, D. and Ni, D. The Development of a Dynamic-Interactive-Vehicle Model for Modeling Traffic Beyond the Microscopic Level. *Proceedings of the 87th Annual Meeting of Transportation Research Board CD-ROM*, Washington, DC, Jan. 13-17, 2008.

- Heaslip, K. and Henclewood, D. Effects of Increased Transit Efficiency on Mobility in Small Developing Countries: Case Study in Kingston, Jamaica. *Proceedings of the 87th Annual Meeting of Transportation Research Board CD-ROM*, Washington, DC, Jan. 13-17, 2008.

Selected Presentations

- Henclewood, D. and Ni, D. The Development of a Dynamic-Interactive-Vehicle Model for Modeling Traffic Beyond the Microscopic Level. The 87th Annual Meeting of Transportation Research Board, Washington, DC, Jan. 13-17, 2008.

- Heaslip, K. and Henclewood, D. Effects of Increased Transit Efficiency on Mobility in Small Developing Countries: Case Study in Kingston, Jamaica. The 87th Annual Meeting of Transportation Research Board, Washington, DC, Jan. 13-17, 2008.

- Henclewood, D and Ni, D. Synthesis of a Dynamic-Interactive-Vehicle Model, 8th Annual NEITE / University of Massachusetts Amherst ITE Technical Day, Amherst, MA, Mar. 7, 2007.

- Henclewood, D and Ni, D. Development of a Dynamic-Interactive-Vehicle (DIV) Model for Sub-Microscopic Traffic Simulation. The 4th Annual MAITE Transportation Student Research Symposium, Boston, MA, Feb. 9, 2007

EXTRACURRICULAR

Membership and Awards

- Transportation Engineering Applied Academic Mentoring (TEAAM) Fellow 2006
- Institute of Transportation Engineers (ITE) - UMass Chapter Vice President 2006
- Institute of Transportation Engineers Member 2006
- National Physics Honor Society - Sigma Pi Sigma (SPS) 2004
- Student Advisory Committee of Holy Cross's Physic Department 2001-2004
- Presidential Scholar, College of the Holy Cross 2000-2004
- Various National and Collegiate Awards for excellence in the Discus and Shot Put throws 2000-2004
- Fisher Summer Research Grant for research in Physics 2002

Volunteer Work

- Co-Head Chef for Jamaica Immersion Program Annual Fund Raising Dinner, College of the Holy Cross, Worcester, MA 2002-2004
- Habitat for Humanity, Tallahassee, FL 2004