



Aaron C. Fayish, P.E., PTOE – Principal

PROFESSIONAL EXPERIENCE

As a Principal for Stahl Sheaffer Engineering, Mr. Fayish was responsible for projects involving transportation studies, traffic analysis, highway design, traffic signal design, and transportation research. He had public and private sector experience performing engineering and traffic studies, traffic impact analyses, traffic signal timing and optimization, traffic simulation studies, transportation data collection, origin-destination studies, traffic calming studies, and safety studies. He assisted municipalities in the development of transportation policies and pedestrian safety education.

REGISTRATIONS / CERTIFICATIONS

- Professional Engineer (P.E.):
 - PA (#PE074235) 2007
 - OH (#PE77261) 2012
 - WV (#PE20045) 2013
 - KY (#PE31091) 2015
 - NY (#PE901956) 2013
 - VA (#040256770) 2013
 - TN (#119179) 2016
 - MS (#PE27311)
- Professional Traffic Operations Engineer (PTOE)

EDUCATION

2003 Master of Science, Civil Engineering (Transportation)

The Pennsylvania State University, University Park, PA

- Thesis: *Assessment of Statewide Web-based Traveler Information Systems*
 - Advisors: P.P. Jovanis, A. Elefteriadou, M.T. Pietrucha
- Curriculum: Highway design, traffic operations, transportation planning, safety analysis, roadside design and management, human factors, optimization in networks, traffic control, and simulation.

2002 Bachelor of Science, Civil Engineering

The Pennsylvania State University, University Park, PA

PUBLICATIONS & PRESENTATIONS

Peer Reviewed Publications:

- **Fayish, A.C.** and P.P. Jovanis. "Usability of Roadway Weather Information Systems." *Transportation Research Record 1899*. Transportation Research Board, National Research Council, Washington DC, 2004, pp. 44-54.
- Dickie, I.A., Koide, R.T. and **A. C. Fayish** (2001) Vesicular-arbuscular mycorrhizal infection of *Quercus rubra* seedlings. *New Phytologist* 151: 257-264.

Peer Reviewed Reports:

- **Fayish, A.C.**, Gross, F. and P.P. Jovanis. “User Perceptions of Web-based Roadway Weather Information Systems: Navigability” 84th Annual Meeting of the Transportation Research Board Compendium of Papers, Report 05-0347, January 2005.
- **Fayish, A.C.**, and P.P. Jovanis. “Usability Study of Statewide Web-based Roadway Weather Information Systems.” 83rd Annual Meeting of the Transportation Research Board Compendium of Papers, Report 04-4084, January 2004.

Professional Reports:

- Ayers, B., Fang, F., **Fayish, A.C.**, Hong, S.R., Lee, D., Wang, K.N., Zekkos, M. (2002) Pedestrian – Vehicle Accident Study, Borough of State College, Pennsylvania. Report to State College Borough Engineer, Council Members, and Pennsylvania Department of Transportation, District 2-0.
- **Fayish, A.C.**, Gross, F., and R.J. Porter. (2003) Optimization of the College Avenue, Beaver Avenue, and Atherton Street Corridors for Peak Hour Traffic with Pedestrian Considerations. Report to State College Borough Engineer and Pennsylvania Department of Transportation, District 2-0.

Selected Presentations:

- “User Perceptions of Web-based Roadway Weather Information Systems: Navigability” for the 7th Annual Pennsylvania Transportation Institute Transportation Conference (August 2004) (presented by F. Gross), and for 10th Annual Transportation Engineering and Safety Conference, Penn State University (December 2004) (presented by F. Gross), and for the 84th Annual Meeting of the Transportation Research Board, Washington D.C. (January 2005) (with F. Gross).
- “Usability Study of Statewide Web-based Roadway Weather Information Systems” for the 83rd Annual Meeting of the Transportation Research Board, Washington D.C. (January 2004).
- “Web-based Roadway Weather Information System in Pennsylvania” for the Pennsylvania Department of Transportation - Bureau of Maintenance and Operations, and Bureau of Highway Safety and Traffic Engineering, Harrisburg, PA (July 2003) (with P.P. Jovanis).
- “Traveler Preference for Road Weather Information from Three Statewide Websites” for the ITS America International Conference, Minneapolis, MN (May 2003) (presented by P.P. Jovanis).
- “Borough of State College Traffic Signal Coordination Project” for the Borough of State College Pedestrian and Traffic Safety Commission, Borough Engineer, and PENNDOT District 2-0. State College, PA (May 2003) (with F. Gross and R. J. Porter).
- “Pedestrian – Vehicle Accident Study in the Borough of State College” for the Borough of State College Pedestrian and Traffic Safety Commission and Borough Engineer. State College, PA (January 2003).
- “Web-based Traveler Information Systems: Case Study Assessment of Design and Content Adequacy” for the Transportation Research Board MAUTC poster presentation section, Washington D.C. (January 2003), and the Pennsylvania Transportation Engineering and Safety Conference poster session, State College, PA (December 2002).
- “Significance of Vesicular-arbuscular Mycorrhiza and Ectomycorrhiza Infection on Northern Red Oak Seedlings” for the undergraduate student research exhibition, College of Agricultural Sciences and Penn State University, State College, PA (March 2000).

- “Ectomycorrhizal Inoculation in One Year Oak Seedlings” for the Pennsylvania Governor’s School for the Agricultural Sciences, State College, PA (July 1997).

HONORS ACTIVITIES

- Research grant from Mid-Atlantic Universities Transportation Center, (\$4,000).
- Graduate Student Assistantship, Pennsylvania Transportation Institute (2002, 2003).
- Dean’s List (Fall 1999, Fall 2000, Spring 2001, Fall 2001, Spring 2002).
- Chi Epsilon National Civil Engineering Honor Society (Initiated Fall 2000).
- Engineering Mentorship Program Student Mentor (Fall 2000).
- Bausch and Lomb academic achievement award in the field of science (June 1998).
- Pennsylvania Governor’s School for the Agricultural Sciences (1997).
- American Society of Civil Engineers Student Achievement Award (1997).
- Pennsylvania Junior Academy of Science First Award (May 1994 – May 1998).

CONTINUING EDUCATION

- Work Zone Safety and Mobility: Traffic Analysis and Impacts, April 2008.
- Transportation Engineering and Safety Conference, State College, PA, December 2007.
- Transportation Engineering and Safety Conference, State College, PA, December 2006.
- Transportation Research Board 85th Annual Meeting, Washington D.C., January 22-26, 2006.
- Transportation Research Board 84th Annual Meeting, Washington D.C., January 9-13, 2005.
- Transportation Engineering and Safety Conference, State College, PA, December 2004.
- Transportation Research Board 83rd Annual Meeting, Washington D.C., January 11-15, 2004
- Transportation Engineering and Safety Conference, State College, PA, December 2003.
- “SYNCHRO and SIMTRAFFIC version 6.0”, by Trafficware, Pittsburgh, PA, November 2003.
- “Rural ITS Toolbox”, by Federal Highway Administration and National Highway Institute, State College, PA June 2003.
- Transportation Research Board 82nd Annual Meeting, Washington D.C., January 12-16, 2003
- Professional Traffic Operations Engineer (No. 2128 ITE)
- American Society of Civil Engineers (ASCE), Member
- Institute of Transportation Engineers (ITE), Member
- International Municipal Signal Association (IMSA), Member
- Transportation Research Board (TRB) – Traffic Signal Systems Committee