PATH Welcomes Leadership of Don Orne

"One could imagine a day not very far away when the movement of people and goods in America is safe, free from environmental hazards, and unimpeded."

After a one-year, nationwide search, PATH is happy to announce the appointment of Donald E. Orne as its new director. Mr. Orne comes to the PATH Program from the Michigan Department of Transportation where he held the position of Assistant Deputy Director for Highway Technology Services for the past six years. Before that, he held management positions in several areas of the department, including transportation planning, traffic safety and highway maintenance.

Mr. Orne takes over the director position from Robert Parsons who retired in April of 1990. Don is a great match for the position due to his extensive management experience and his involvement in the area of Intelligent Vehicle Highway Systems (IVHS). In fact, he was instrumental in establishing an IVHS research program at the University of Michigan.

PATH is looking to Don Orne to provide strong leadership as well as a unique vision for the program's future. Mr. Orne envisions a diversified research program that "will feature government, academic and private interests collaborating to urgently seek creative solutions at the frontiers of knowledge". We have now reached a point where solving our nation's transportation problems is critical. Don Orne is addressing society's transportation issues as he imagines "a day not very far away when the movement of people and goods in America is safe, free from environmental hazards and unimpeded". All of the people involved in the PATH Program are optimistic that their director's vision will one day become a reality.
Engineering Update

The Creation of a Test Track
PATH, IMRA and Caltrans Join "Magnetic" Forces

In just a matter of days, full-scale, lateral control experiments will be underway on a new test track which was recently built at the University of California's Richmond Field Station. This project, which started early in 1991, is a joint effort between PATH, IMRA and Caltrans to study the effects of magnetic forces on vehicle stability. The test track will be used to evaluate different strategies for improving vehicle stability and safety.

PATH Program researchers at the University of California at Berkeley and IMRA America, Inc. have been working to develop a test vehicle that can be used to evaluate the effects of magnetic forces. The vehicle will be equipped with sensors and control systems that can be used to measure the effects of magnetic forces on vehicle stability.

The test track will be a 13 cm long straight section, with 7 cm magnets at 150 m intervals. The track will be used to evaluate the effects of magnetic forces on vehicle stability and control. The test track will be used to evaluate different strategies for improving vehicle stability and safety.

IVHS Info On-Line:
Tapping into the PATH Database

Great news for PATH researchers! The PATH Database, located at the Institute of Transportation Studies Library, is now available for use 24 hours a day, 7 days a week, and can be accessed through remote personal computers. In order to dial in to the database, a $5 per hour access fee is charged. PATH researchers can search the database by author, title, or keyword using full-text keywords. The database currently contains 2,000 references on subject areas within IVHS and Aims. Address: PATH, 9100 Wilshire, Suite 101, Beverly Hills, CA 90212. Telephone: 310-660-3800.

Test Track

Steering action needed to keep the vehicle along the roadway reference. The formulation of the PATH/IMRA project is based on in-depth investigations of vehicle lateral control. The project is intended to provide a complete source of information for the project team. The PATH database is supported by the INMAGIC database management system, a text indexing and retrieval software program. The Institute for Transportation Studies Library at the University of California, Berkeley, has developed the INMAGIC database as the basis for the index terms used to describe and categorize documents in the database. Users search through the database via SearchMAGIC, the search-only version of INMAGIC.

Currently, passwords to access the PATH Database are available to PATH researchers and sponsors only. However, negotiations are underway with IVHS program sponsors to make this valuable resource available on an international basis. Further information can be obtained from the Institute of Transportation Studies Library, University of California, 412 McLaughlin Hall, Berkeley, CA 94720. Telephone: 310-660-3800.
A Trip to 'Venus'...

**PATH Makes a Presence at Upcoming VNIS '91 Conference**

The VNIS '91 (Vehicle Navigation & Information Systems) International Conference and Exhibit will take place on October 20-23 at the Hyatt Regency Dearborn in Dearborn, Michigan. Scheduled to present at this event will be the following PATH researchers (identified by the asterisk after their names):

**Tuesday 10/22, 8:00 a.m. Session Code: 3.6**
- **Highway Automation: System Modelling for Impacts Analysis**: Anne Bresnock, Mark A. Miller*, Edward H. Lechner, Steven E. Shladover*

- **IVHS - Some Non-Technical Implementation Issues**: Donald E. Orne*

**Tuesday 10/22, 10:00 a.m. Session Code: 3.4**
- **Incident Management with Advanced Traveller Information Systems**: Haitham Al-Deek* and Adib Kanafani*

- **Dynamic Traffic Network Simulation—Assignment Modelling for Advanced Driver Information Systems**: F. Jayakrishnan* and H.S. Mahmassani

**Tuesday 10/22, 1:30 p.m. Session Code: 3.5A**
- **Effect of Traffic Reports on Commuters Route Departure Time Changes**: Asad J. Khattak* and Frank S. Koppelman

**Wednesday 10/23, 8:30 a.m. Session Code: 4.5**
- **Sketch of an IVHS System Architecture**: Pravin Varaiya* and Steven E. Shladover*

**Wednesday 10/23, 1:30 p.m. Session Code: 1.6**
- **A Roadway Information System for Vehicle Guidance/Control**: Wei-Bin Zhang*


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**Spotlight on Research**

Attention PATH researchers state-wide! **Intellimation** is eager to spread the word on your research projects. PATH would like to feature your research activities in this newsletter in an effort to keep everyone up-to-date on our state-wide IVHS projects. If you are interested in submitting ideas based on your PATH-related projects, please contact Anna Marie Bozzini at 510/231-9495 for information and guidelines.

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**local motion**

**Employee Update**: Asad Khattak joins the PATH research group as an Assistant Research Engineer specializing in Traveller Behavior. Dr. Khattak previously held a position at ADVANCE (an IVHS Project in Chicago) where he worked while completing his doctoral dissertation. After completing his dissertation, Dr. Khattak worked on the DRIVE program at the University of Oxford. Dr. Khattak received his Ph.D. and Masters degrees in Civil Engineering from Northwestern University.

Congratulations to Kwang Soo Chang who was awarded Best Presenter Honors in his session at the American Control Conference (ACC) in Boston this summer.

**Intellimation** is a quarterly newsletter edited by Anna Marie Bozzini and designed by the PATH Publications team, Andrew Watanabe and Malou Pollard. For questions or comments regarding this newsletter, please contact:

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