



TRANSPORTATION

Building Jobs through Transportation FOCUS

News and Information from the Rahall Transportation Institute



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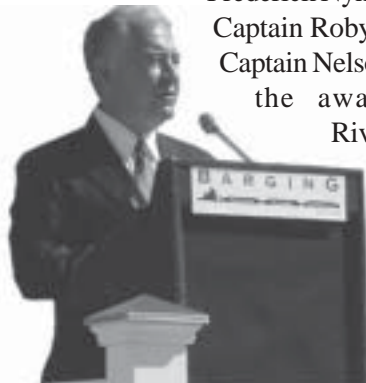


First Maritime Impact Awards Presented

by Errin Jewell

The first Maritime Impact Awards were presented to four individuals, all of whom have served at the Port of Huntington, as part of National Maritime Recognition Day, May 22, 2006, by U.S. Rep. Nick J. Rahall, II

Captain John Reynolds, Commander Frederick Nyhius, USCG (Ret), Captain Robyn Strickland and Captain Nelson Jones received the awards at Harris Riverfront Park.



Left to right: Captains Reynolds, Strickland, Nyhius and Jones received the first Maritime Impact Awards.

Dana Robertson, director of RTI's National Maritime Enhancement Institute, said, "These outstanding individuals received these awards because they have contributed so much to promoting the use and understanding of the inland waterways in this region."

CONTINUED PAGE 3: MARITIME

2 CORS Stations Accepted into National Network

by Errin Jewell

As an extension of ongoing Federal Railroad Administration research, two of the three continuously operating reference stations developed by RTI, Huntington (WVHU) and Ravenswood (WVRA), were accepted as part of the National Geodetic Survey's (NGS) national Continuously Operating Reference Stations (CORS) network.

"Survey applications that used to take hours or days with conventional methods, can, if properly executed, be done in minutes or seconds."

The third station, South Charleston, will be submitted for consideration in the near future.

As part of the national network, which may be viewed online at www.ngs.noaa.gov/CORS/, the NGS collects and stores observations from these stations at one-second increments. These observations can be retrieved online for use in post-processed GPS observations, providing enhanced accuracy for users.



Spring 2006

Visit us on the web at www.marshall.edu/rti



Plymale's Perspective The Director's Report



Summer Transportation Opportunities Abundant

The city of Huntington and the tri-state area originated as a transportation hub where roads and rails met the Ohio River and its tributaries. As the days get longer and the season gets warmer, the opportunities to explore transportation-related activities are abundant here.

We encourage citizens of our region to consider incorporating some of these valuable local resources into their summer activities, such as:

- Visiting the transportation exhibit at Marshall University's Morrow Library, which highlights the Huntington area and was dedicated April 22.
- Joining river excursions and day trips from the Port of Huntington to Cincinnati, Pittsburgh, Louisville or other cities located along the Ohio River or where it meets the Mississippi.
- Taking a look at the Transportation Building at Heritage Farm, located just outside of Huntington. From covered wagons to electric cars, items in this building show the progression of motorized transportation from the late 1800s to the present.
- Enjoying the natural beauty of our region while taking a walk or jog on one of the many state or city parks or trails.

Wishing you a wonderful summer,

Robert H. Plymale

EDITOR'S NOTE:

In the Winter 2006 Edition of Transportation Focus, Mr. Doug Skowron, director of Pittsburgh Gateways Corporation, was misidentified as Mr. Doug Skowren. We apologize for incorrectly spelling his name and once again thank PGC for its generous partnership.

6th Geohazards in Transportation Technical Forum Planned for Aug.

By Errin Jewell

Geohazards in Transportation in the Appalachian Region, the sixth annual technical forum, will take place August 2-3, 2006 in Lexington, Ky.

The forum, which is sponsored by RTI, Marshall University Center for Environmental, Geotechnical and Applied Sciences, is hosted by the University of Kentucky and the Kentucky Geological Society.

Tentative session topics include: *Mapping Utilizing GIS & GPS; Geotechnical Databases; Water Issues; Landslides: Prediction, Prevention and Remediation; Seismic Issues and Assessment; Rock Reinforcement and Anchoring; Site Characterizations: Over Karst & AML (Ron Krofchek, FHWA); Risk and Reliability Assessment; and Site Characterization: Over Karst & AML (Jim Currens, KGS).*

Activities take place at the Hyatt Regency Lexington, and Professional Development Hours will be granted for individuals who register for both days. Registration information is available on RTI's website at www.marshall.edu/rti or by contacting Geaunita Caylor at (859) 257-2173 or gcaylor@engr.uky.edu.





CONTINUED PAGE 3: MARITIME

This three-day event concluded local National Maritime Days activities, which began May 20.

“This event provided tri-state residents with an opportunity to join the many hard-working men and women of the local Maritime Industry in celebrating National Maritime Days,” Patrick Donovan, acting director of the West Virginia Department of Transportation Public Port Authority, said.

“Individuals were able to see how members of our community live, work, and play on the mighty Ohio River. Visitors could learn about the history of the Ohio River, tie a knot, participate in deckhand activities and see what makes the Port of Huntington Tri-State the largest Inland River Port in tonnage in America.”

Three commercial tows, the M/V Capt. John Reynolds, the M/V J. S. Lewis and the M/V Vernon C. Smith, were open for tours during the event. Activities were free to the public and included rivermen demonstrations and contests, information on river employment opportunities and education training. The United States Army Corps of Engineers, Huntington District provided a working model of a navigational lock and presented gear used by the divers who maintain local locks and dams. Boat rides were also offered aboard the M/V City of Sistersville, and local river-related businesses, groups and agencies, hosted displays.

The first National Maritime Day was approved May 20, 1933, as a joint resolution by the United States Congress. Local maritime organizations plan to make the celebration a yearly event in Huntington, in hopes of recognizing how important the Maritime Industry is to the local economy and to inform local citizens as to economic development opportunities and careers that are related to the river.

National Maritime Days was sponsored by RTI, West Virginia Department of Transportation, US Army Corps of Engineers, Huntington, Inland Waterways Academy (at Marshall C&TC), USCG Marine Safety Unit Huntington, USCG Auxiliary, WV Public Port Authority, Kanawha River Power Squadron, Huntington District Waterways Association, Holderby's Landing and the Propeller Club of Huntington.

CONTINUED PAGE 3: CORS

Pete Dailey, RTI Manager Geomatic Research, said, “Our stations are also available for broadcasting corrections for real-time kinematic surveying applications. Other entities have established cooperative CORS in the state, but ours are the first to be accepted into the national network.”

RTI, Ohio Department of Transportation, West Virginia Department of Environmental Protection and the West Virginia Department of Transportation are actively engaged in local and regionally driven initiatives to establish, maintain and operate a real-time global navigation satellite system (GNSS) infrastructure network.

“In West Virginia, this discussion has been directed toward serving the widest possible range of public and private sector interests,” Dailey said.

Dailey said, “The general populace is readily familiar with ‘Marco-GNSS’ in the form of consumer type products like handheld recreational GNSS receivers, or car navigation systems, which have an accuracy of 1-10 meters. ‘Micro-GNSS’ is engineering and surveying grade positioning, which has an accuracy of 1-5 cm, and utilizes not only satellites, but also networks of ‘earth-sensors,’ or CORS.

“Survey applications that used to take hours or days with conventional methods, can, if properly executed, be done in minutes or seconds.”

Typical uses for Micro-GNSS include: land surveying, aerial photography, hydrography; machine control automation of grading and heavy construction equipment, structural & robotics; mapping: environmental, engineering studies, disaster preparedness, improving GIS; asset inventory of physical plants, roadside, utilities, locates and clearances; structural integrity monitoring of dams, bridges, buildings, plant, subsidence, deflection; emergency response incident mapping, post-event analysis, recovery location, reconstruction; atmospheric data ionospheric and tropospheric modeling, weather studies and forecasting; precise navigation for snowplows, maritime portage and hazard clearances; Intelligent Transportation Systems, precision agriculture; forensics and scene investigation, archaeology, and restoration; monumentation recording and preservation programs; scientific studies of tectonic plate movement, timing, orbital, signal ambiguities.





Students Test Skills at 2006 Engineering Camp

By kate Jordan

Students participating in the 2006 Exploring Engineering: Academy of Excellence summer camp gathered on Buskirk field Tuesday, June 13, to compete in a trebuchet competition. Students designed the trebuchets using PVC pipe, duct tape, cloth, string and empty containers (as weights) and competed against each other in groups under the topics of accuracy, distance and design, which had 3 categories: construction and development, appearance, and development of design.



The trebuchet design/competition is one of many in which students at the EEAE summer camp will participate.

Hurricane High student, Nicholas Schamp, who will be a junior in the Fall, is participating in his first year at engineering camp. "I love it so far. I've met lots of great people." Nicholas aspires to major in engineering while at college and possibly attend medical school.

"I think the camp will help me decide if I really want to be an engineer," says Schamp.

Emily Toutkoushian came from Indiana. She will be entering her senior year at Bloomington High School South during the upcoming school year. Like Schamp, Emily aspires to be an engineer but also has interests in architecture. When asked what her favorite project had been so far she stated, "The trebuchet project has been the best one. We've had a lot of fun making it."

Richard McCormick, professor of engineering at Marshall University, was volunteering in his 4th year at the camp. He was in charge of the trebuchet project.

"I help with all the projects," McCormick says. "There are new kids every year and every year the camp improves."

The EEAE camp is sponsored by the Rahall Transportation Institute, Society of American Military Engineers Huntington Post and many other generous organizations. The Academy was designed to encourage high school students to explore engineering as a career by participating in hands-on engineering activities, touring engineering-related facilities, and interacting with practicing engineers.

Participating students also get a taste of campus/dorm life as they are housed in the Marshall University Commons Residence Halls for the week. They are given a roommate and eat in the dining halls, an experience that is much like that of a first year college student.

Aside from the trebuchet project, students worked on a variety of other projects throughout the week. They were introduced to CADD and AutoCAD, software programs which will help them to design a CO2 racer. They also learned about civil and environmental engineering, looked at surveying, environmental sampling, and GPS, which was used later to conduct a scavenger hunt.



The students also learned about Intelligent Transportation Systems using LEGO Robotics and worked on robot design/construction, another project that had a mini-competition.

Guest speakers were present throughout the week and the students partook in field trips to the Toyota Plant in Buffalo, W.Va., the Memorial Tunnel, and a trip to the New River Gorge Bridge. This year's camp lasts from June 11 to June 26 and is free to all participating students.



Faculty & Staff Spotlight: Theresa Litteral and Michael Misiti

Name: Theresa M. Litteral

Birthplace: England, United Kingdom

Title: Research Associate, Geographic Information Systems

Education: Bachelor of Science in Geology - Cambridge University; Master's of Physical Science - Marshall University

Projects with RTI: Transportation and economic development information system for West Virginia; GIS mapping system for the Appalachian Development Highway System Corridors



Name: Michael Misiti

Title: Undergraduate Research Assistant

Education: Pursuing degrees in accounting and finance with minors in economics, management and marketing

Projects with RTI: Inventory reconciliation, editing the Mingo County Redevelopment Authority's Web site, assisting in accounts payable and general administrative duties



RTI Employees Receive Operation Lifesaver Award

by Abigail Kimberlain

Three RTI employees received the West Virginia Operation Lifesaver Mountaineer Award in March. Recipients LeAndria Reed, John Ball and Kimberley Baker-Huff were recognized for the exceptional dedication they've shown to WVOL. State Coordinator, John Perry, said these three volunteers have demonstrated special service, because "They work at the WVOL Rail Camp, give up their weekends to work at our booths at fairs and festivals and train shows."

Perry also noted Ball, Reed and Baker-Huff do a lot of behind the scenes work, such as making phone calls, building contacts for WVOL and promoting the organization.

Since its start eight years ago, WVOL has awarded only 22 Mountaineer Awards. The Mountaineer Awards are given annually to volunteers who are considered outstanding presenters, and who give exceptional service to WVOL.





USDOT's Lotz Tours RTI's Facilities, Addresses Students

by Errin Jewell

On March 15, 2006, RTI welcomed Roger Lotz, Public Affairs Specialist for the United States Department of Transportation Research and Innovative Technology Administration, to its headquarters and research facilities on Marshall University's Huntington campus.



Building) and the Environmental Science Lab (Morrow Library). Next, a walkthrough of five technology exhibits took place and showcased RTI research using infra-red cameras, mobile ground penetrating radar units, light emitting ceramic devices and laser interferometry.

During the afternoon, approximately 35

The day began with introductions to RTI staff and students and an overview of research, education and technology transfer activities by Dr. Richard Begley and Sean Litteral.

A tour of RTI research labs then took place. Demonstrations took place in the College of Information and Engineering Technology (Gullickson Hall), the Remote Sensing Lab and several physics labs (Science

Spring Valley High School juniors and seniors were informed of transportation career opportunities by Lotz.

The day concluded with environmental research, engineering education and engineering research presentations, which were followed by a question and answer session with Dr. Sarah Denman, Marshall University Provost and Senior Vice President for Academic Affairs and Lotz.



Top photo: Roger Lotz, Public Affairs Specialist for the USDOT, visits the Remote Sensing Lab and learns about GIS research projects conducted by Marshall University's Dr. James Brumfield and undergraduate and graduate students. Directly above: Lotz informs SVHS students about careers in transportation and advises them about how to academically prepare for them. Right: Karen Davis, Spring Valley High School science teacher, sent a thank-you note to RTI for hosting the SVHS visit.

Hello everyone,

I just got back to school and I wanted to thank everyone involved in making the Spring Valley High School SOAR fieldtrip a success today. The students have given many positive remarks about both tours today.

All of the tour guides and speakers at the VA and RTI were outstanding. Thanks so much for all of the planning, the food, your time, and the valuable information that our students received. I know that our students will benefit greatly from it.

*Karen Davis
 Science Teacher
 SOAR Sponsor
 Spring Valley High School*





Transportation Researchers Convene at TED 2006

by Errin Jewell

TED 2006, the third international conference on Transportation and Economic Development, took place March 28-31, 2006, in Little Rock, Ark.

More than 200 individuals attended the conference, which was co-sponsored by RTI, and featured four plenary sessions, 23 breakout sessions. Tours of transportation facilities and Little Rock landmarks and an economic impact workshop also comprised the event.

RTI research entitled, **“Simultaneously Achieving Economic Efficiency and Economic Development in Location of**



Above: Dr. Richard Begley, RTI Associate Director, presents a program overview of RTI during TED 2006 in Little Rock, Ark.

Transportation Infrastructure,” which was conducted by Dr. Mark Burton of RTI and the University of Tennessee, and Dr. Michael Hicks of the Air Force Institute of Technology, was presented at the conference.

Dr. Richard Begley, Associate Director, also presented a program overview of RTI’s research, education and technology transfer activities, during Wednesday’s dinner session.

Field Researchers Now Assisted by Kawasaki “Mule”

In April 2006, RTI acquired an all-terrain vehicle, the Kawasaki “Mule,” which will be used to assist research associates, graduate research assistants and undergraduate students in conducting field research. The “Mule” may be beneficial for projects that



require researchers to transport equipment to hard-to-reach areas.

Several research associates and students are being trained to safely and effectively operate the vehicle through a cooperative arrangement with the Hatfield McCoy Trail System. Chief Ranger Steve Simpkins will conduct the ATV Rider Training Course, which is part of a national program offered by the All Terrain Vehicle Safety Institute (ASI). The training includes: pre-ride inspection, starting and stopping, quick turns, hill riding, emergency stopping and swerving and riding over obstacles.





WV West Point Bridge Design Contest Concludes

by Errin Jewell

Brad Rubin and Joe Warner, two aspiring engineers from George Washington High School, were declared winners of the West Virginia division of the national West Point Bridge Design Contest April 21-22, 2006.

RTI was a primary sponsor of the local contest, and research associate John Ball, P.E., served as RTI's liaison.

This internet-based competition promotes math, science and technology education and is sponsored by the American Society of Civil Engineers and administered by the West Point Military Academy. Participation is open and free to students from age 13 and up to grade 12.

Rubin and Warner comprised one of eleven finalist teams, which were narrowed down from 300 who registered in January 2006, to compete on Marshall University's Huntington campus.

The winning team also won the Pop Quiz and the Amazing Engineering Race, during which they completed more than ten challenges that were tied to mathematic calculations or local engineering history. For their efforts, they were awarded more than \$1000 in cash and prizes.

Participants were coached by engineers and civil engineering students from local universities, who taught participants to use engineering design software to create computer models of the most cost effective bridge that would sustain



From left: WV ASCE YMF President Daniel Flint of Baker Engineering, Contest Winners Brad Rubin and Joe Warner, WVDOT Commissioner Paul Mattox and 2006 Contest Coordinator David Tabor of Palmer Engineering.

AASHTO load conditions.

This year's contest also included a tour by West Virginia and Ohio Departments of Transportation officials of the construction of the Pomeroy-Mason cable-stayed bridge.

For more information about this year's contest, visit bridgecontest.usma.edu or contact the 2006 WV Coordinator, David Tabor, P.E., at dtabor@palmernet.com or by calling 304-757-1933.

WV Winners Circle

1st Place Overall: Brad Rubin and Joe Warner (George Washington High School)

2nd Place: Brad and Travis Miller (Greenbrier East High School)

3rd Place: Alan and Brian Chen (University High School)

Other top 10 participants: Eric and Walker Guffey, Leif Sayvetz, Jack Gang and Granvil George, James Fuller, Jonathan O'Dell, Shawn Andrews and Randy Shrewsberry, TJ Knight and BJ West, and Nathan Gump

Amazing Race Contest Winners: Team A – Trevor Guffey, Nathan Gump, James Fuller, Bradley Rubin

Pop Quiz Winners: Joseph Warner and Brad Rubin

2006 Outstanding Participating Volunteer: Jimmy Wriston, WVDOT





Operation Lifesaver Trains Nine New Presenters

by Abigail Kimberlain

In February, prospective Operation Lifesaver volunteers from across the state came together for a day of training at RTI.

Together, Ira Baldwin and Ross Dye III of Operation Lifesaver, trained nine new presenters. These volunteers represented organizations including RTI, CSX, Norfolk Southern Corp., the West Virginia Department of Motor Vehicles and the West Virginia Public Service Commission.

Training involved instruction in proper and accurate presentation about highway-rail and trespasser safety lectures.

These new volunteers will deliver safety presentations to schools, clubs and transportation professionals throughout the state.



Eight of the Nine New WVOL Presenters (L-R): Errin Jewell, Jon Cline, John McPhail, Robin Swiney, Samuel Daugherty, Franklin Crabtree, H.R. McVey III and Justin Miller

Rail and Road Seminar Takes Place in Penn.

On May 10-11, 2006, a Railroad and Highway Traffic Safety and Operations Road Seminar took place in College Park, Penn. More than 30 transportation professionals from central Pennsylvania's railroad and highway industries attended. Participants were provided with an understanding of the key aspects of design, construction, maintenance and temporary traffic control for each other's facilities.

Representatives, who were from the Pennsylvania Department of Transportation, Federal Highway Administration and several short line railroads, were eligible for 1.4 Continuing Education Units.

Instructors included: John Ball and LeAndria Reed of RTI, Phil Merilli of Norfolk Southern, Paul Tucker of CSX (retired) and John Reynolds of the Federal Railroad Administration.

Two-Day PASS Training Courses Take Place

Research Associate John Ball, P.E., provided an "Easy Rider" Two Day PASS Training Course for twelve transportation professionals in Parkersburg, W.Va. The training took place March 28-29, 2006, at the Mid Ohio Valley Transit Authority.

On June 13-14, 2006, a second Two Day Pass Training Course took place at the Monongalia County Urban Transit Authority in Westover, W.Va. This course was also instructed by Ball. PASS Driver Certification Program ensures that community transportation drivers have current expertise in passenger assistance techniques and sensitivity skills appropriate for serving persons with disabilities.



RTI Provides Transportation Safety Information to Students during Local Health and Safety Activities

TIPS and OL Representatives Present Info at Wayne High School

by Kate Jordan

On Monday, March 13, Wayne High School, located in Wayne, W.Va., hosted a health and safety fair for its students. In attendance were more than 600 middle school and high school students who were given time from their school day to visit various booths on display concerned with health and safety.

Of the vendors in attendance, the West Virginia Operation Lifesaver program and TIPS (Transportation Injury Prevention Safety Program) spoke with students throughout the day.

Operation Lifesaver is a non-profit safety education organization that works to reduce and eliminate the number of fatalities and injuries at highway-rail grade crossings and railroad rights-of-way throughout the state.

TIPS is a similar program that works in conjunction with St. Mary's Hospital to educate the public on ways to prevent transportation injuries. The OL program and the TIPS program are both co-sponsored by RTI.

Although the students only had a limited amount of time to visit the many vendors present, LeAndria Reed, OL Presenter and RTI research associate, said, "This gives us an opportunity to educate future drivers about the dangers of railroad crossings.

"Talking with students reveals many are unaware of the dangers of trespassing and many have had family members who have been hurt or killed by trains."

Research associate John Ball and Errin Jewell, RTI's, public affairs and desktop publishing specialist, also attended the safety fair at Wayne High School.

300+ Jackson County Students Learn to Stay Safe around RR Crossings

by Errin Jewell

More than 300 fourth grade students from Jackson County and the surrounding area were provided rural life safety tips, including the importance of being safe around railroad tracks and crossings, during Progressive Agriculture Safety Day.

Representatives from Operation Lifesaver, including RTI's Errin Jewell, conducted twenty minute presentations May 2-3, 2006, at the safety day, which took place at the Jackson County Fair Grounds in Cottageville, W.Va.



After viewing the presentations, each group of students participated in question and answer sessions regarding railroad safety.

Nearly all of the students said they live near railroad tracks or cross them in vehicles daily, and many said they learned useful safety tips that they would reiterate to their parents. Teachers and students also received Operation Lifesaver materials and pencils to take home.

The mission of Progressive Agriculture Safety Days, which have been conducted in the United States, Canada and U.S. territories since 1995, is to make farm and ranch life safer and healthier for all children through education and training.





LEGO Robotics Goes to Atlanta, W.Va Math Field Day

By Kate Jordan

On April 27-29, Linda Hamilton, Coordinator K-12 Outreach Intelligent Transportation Systems Workshops Using LEGO Robotics, was a guest and presenter at the FIRST LEGO League Ocean Odyssey World Festival in Atlanta, Ga., at the Georgia Dome.



FIRST (For Inspiration and Recognition of Science and Technology) hosted the FIRST LEGO League Ocean Odyssey World Festival in conjunction with the FIRST Championship.

FLL hosted 80 teams from 30 countries in a 2 ½ day tournament as a follow up to the regional/state competitions that took place during the winter of 2005. Hamilton participated in the state competition that took place in Wheeling, W. Va., as a mentor to FLL team 550, The Barbourville RoboPirates, a team out of Barbourville Middle School.

As a presenter in Atlanta, Hamilton offered a technical presentation on RoboLab Data-logging. Hamilton states, in an abstract that was presented to FLL teams and mentors, that data-logging is important to FLL teams early on in the competition season because it can help them with programming ideas that might utilize light sensors or rotation sensors. Hamilton offered spectators a simple way to accomplish data gather-



ing and graphing through the use of INVESTIGATOR (a program in RoboLab) and SENSORCITY.

While Linda was demonstrating data-logging in Atlanta, Danny Watson II, undergraduate research assistant, was demonstrating LEGO robotics at the West Virginia State Math Field Day competition that took place at Morrow Library on Marshall University's campus. Danny also used the Ocean Odyssey challenge in his demonstration to parents and students, and after some initial guidance the students were able to complete many of the challenges on their own. Having the participation of these students and parents sparked interest in forming FLL teams for the 2006 season.



Linda and Danny both work with students and teachers in the Huntington vicinity, educating them on the functions and purposes of LEGO robotics. For more information on FLL, K-12 Outreach and LEGO Robotics visit: www.marshall.edu/LEGO/.





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Managing Editor: Errin Jewell

Design and Layout: Errin Jewell, Kate Jordan, Abigail Kimberlain

Writers and Copy Editors: Pam Hamilton, Errin Jewell, Kate Jordan, Abigail Kimberlain

Contributors: Pete Dailey, Diana Long, LeAndria Reed, Barbara Roberts, Dana Robertson

Read *Transportation Focus* online at www.marshall.edu/ati/news/newsletter.htmlx.

Upcoming Events

Conferences

Aug. 2-3, 2006

Geohazards in Transportation in the Appalachian Region, 6th Annual Technical Forum, Hyatt Regency Hotel, Lexington, Ky.

Technology Transfer Activities

Sept. 26-27, 2006

Two-Day PASS Course, Marshall University Memorial Student Center, Huntington, W.Va.

Nov. 15-16, 2006

Two-Day PASS Course, Raleigh County Community Action, Beckley, W.Va.

K-12 Outreach Activities

June 25-30, 2006

Operation Lifesaver Rail Camp, W.Va.

July 31-Aug. 4, 2006

LEGO and DUPLO Summer Camps, Morrow Library, Marshall University, Huntington, W.Va.

Register online at www.marshall.edu/rti or call Sandra Jones at (304) 696-7098.

Upcoming Events

 Nick J. Rahall, II
Appalachian Transportation Institute

P.O. Box 5425
Huntington, WV 25703-0425
1-800-284-9853
www.marshall.edu/rti

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