

*One of PA's Best 50 Women
in Business*

Constance M. Dougher, senior vice president, secretary, and corporate counsel of ARRO, has been selected as one of Pennsylvania's Best 50 Women in



D. Yablensky, C. Dougher, Lieut. Gov. C. Bakernoll

Business for the year 2005. The Pennsylvania Department of Business for the year 2005. The Pennsylvania Department of Community and Economic Development and the business journals of Pennsylvania have partnered to create a statewide event to honor Pennsylvania's most dynamic women in business. These women share a commitment to business growth, professional excellence, and to the community-women who are shaping the economic future of Pennsylvania.

In her current role, Ms. Dougher sits on the Board of Directors and continues to serve as Secretary and Counsel to the company. Her primary responsibility is company-wide risk management, including oversight of contract administration, purchasing of liability insurances and employment and benefits compliance.

Previous recipients of Best 50 Women in Business award, in cooperation with the Central Penn Business Journal, have developed a scholarship program designed to extend support to the next generation of women business leaders in Pennsylvania communities.



- *Engineering*
- *Consulting*
- *Operations*

ARRO

Dynamics

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soars to *new heights*

Matt Brown, ARRO's president and chief executive officer, has logged 300 hours of flight time since fulfilling a lifelong dream and taking to the skies about 16 months ago. A mere 10 minutes into his first flight lesson received as a Christmas gift, and he was hooked. He obtained third class medical clearance, and signed on with Dutch Country Helicopters at Lancaster Airport where he was trained on 1950s vintage Bell 47 helicopters (the kind used by the 4077th M*A*S*H unit).

At the time of his first solo flight in July 2004, Matt had 35 hours of air training in addition to classroom instruction hours, and he had the endorsement of a certified flight instructor about his ability to maneuver for solo. In October 2004, on the first attempt, he received his private helicopter license by passing a Federal Aviation Administration written examination, a practical test with an FAA examiner to demonstrate proficiency, and an oral examination of rules and regulations associated with aviation. Shortly afterward, he commenced single-engine airplane training and began learning to fly turbine-powered helicopters such as the Bell 206B Jet Ranger an aircraft that seats about five persons and is used by newscasters and law enforcement personnel and continued training to acquire a commercial license for certain types of helicopter flights.

In May 2005, Matt flew a single-engine plane from Lancaster to Reading and took the practical test to earn his wings as a private, single-engine airplane pilot. During the same month, he became a commercial helicopter pilot by successfully passing a written examination, obtaining a

second-class medical certificate, and demonstrating more advanced skills and control of the aircraft. Since then he has taken aerial photographs of various facilities designed by ARRO and provides rides to friends, family, ARRO staff, and clients at the Lancaster Airport.

Matt is scheduled to take the certified flight instructor written examination in late August 2005, and is also working toward a goal of attaining instrument rating competency by Labor Day since his flights are presently limited to clear weather, day-or night. To achieve instrument proficiency, he is taking courses and undergoing additional flight training.

Lately, Matt has been traveling to Mount Holly, New Jersey to fly a versatile, small utility helicopter known as a Schweizer. Within the past month, he had the opportunity to fly a Vietnam-era turbine helicopter retrofitted for civilian use, which Matt describes as "essentially the air version of a speed boat." Another memorable time in the cockpit was participating in a tandem flight over Lancaster County with four other Bell 47s. He has flown several different single-engine airplanes, including a Cessna 172, a Piper Archer and Cherokee, as well as a Diamond Eclipse. Considered a motorized glider, the Diamond Eclipse is constructed of composite materials and affords a stable cruising speed of 100-110 knots.

The lack of vehicle traffic headaches and reduced travel time associated with air travel are particularly appealing to Matt, who has departed Lancaster at 7 a.m. on a Saturday and arrived in Ocean City, Maryland for breakfast by 8:30 a.m. In September, he plans to head north to Rochester, New York for a family get together what would be a five-hour trip on Interstate 81 will take less than two hours in a single-engine airplane.

For now, Matt continues to enjoy flying and is eager to share his knowledge and enthusiasm with others by training them to become safe pilots.



this' n that

PENNVEST Update

If your community is considering Pennsylvania Infrastructure Investment Authority (PENNVEST) as a funding source for upcoming water, wastewater, or stormwater improvement projects, be advised that PENNVEST has tightened its documentation requirements. Electronic reporting is now mandatory. Contractor compliance with disadvantaged business enterprise requirements is being monitored more closely by PENNVEST officials, and all paperwork must be completed in order for closing on a loan to occur, which may impact the project schedule particularly in instances involving consent orders.

Since the program's establishment in March 1988, funding in the amount of \$3.8 billion has been approved for 1,929 projects throughout the Commonwealth of Pennsylvania.

Oxford Office Opens

July 1 marked the opening of ARRO's newest office, conveniently located at 9 North Third Street in Oxford, PA. Managed by long-time employee John H. Highby, the office serves as ARRO's base of operations in rapidly-growing southern Chester County. By virtue of this strategic location, ARRO is positioned to continue serving existing clients and focus on business development opportunities along the Interstate 95 and US Route 1 corridors in Pennsylvania, Maryland, and northern Delaware.

Mechanicsburg Manager

Michael C. Poletti, P.E. was recently named manager of ARRO's Mechanicsburg office. A graduate of The Pennsylvania State University with a B.S. in civil engineering, Mike boasts 13 years of experience in engineering design and project management for civil, site, land development,



and transportation projects. Since joining ARRO, Mike has assumed the role of project manager for various clients throughout the capital region.

Mike is professionally licensed in Pennsylvania, Maryland, and North Carolina, and maintains memberships in the National Society of Professional Engineers, American Society of Highway Engineers, and Society of American Military Engineers.

GISP Certification

Brian A. Higgins was recently designated a geographic information systems professional (GISP) by the GIS Certification Institute. Since the program's inception in January 2004, nearly 800 individuals have achieved certification status; approximately 40 certified GIS professionals are from ARRO's primary service area of Pennsylvania and Maryland.



The portfolio-based certification program was developed by the Urban & Regional Information Systems Association (URISA) over a four-year period, and requires minimum levels of achievement in three areas: education, professional experience, and contributions to the profession, as well as adherence to the GIS Code of Ethics. In order to ensure participants remain current in the field, continuing education and professional development must be documented via submission of a new portfolio to the review committee every five years for renewal purposes.

Brian has served as ARRO's GIS manager since August 2000. He holds an M.S. in geology from the University of Kentucky and a B.S. in environmental science from Morehead State University.

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ARRO provides advice, design, project management, consulting, and operations services for a wide range of infrastructure including water, wastewater, and transportation systems.

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Operator Training Program To Mark First Anniversary

The popularity of ARRO's accredited water and wastewater operations training program continues to grow as December 31, 2005, the initial expiration date for some wastewater operators under PA DEP's new three-year certification renewal cycle, approaches. Since receiving accreditation in September 2004 and offering its first session at the Mount Joy Fire Hall in October 2004, ARRO has provided instruction to over 300 individuals at one dozen locations throughout Pennsylvania. That is a total of nearly 2000 contact hours!

ARRO's partnership approach with professional associations and councils of government (COGs), in addition to on-site and classroom training, affords operators and managers a cost-effective and convenient option to earn contact hours toward continuing education requirements. Participants do not incur lodging and other costs associated with travel to remote locations, and the amount of time away from the work site is reduced when ARRO hosts the course locally. Specific course content and organization and training materials adhere to guidelines set forth in PA DEP's Training Provider Manual. All courses offered by ARRO are also approved for PENNVEST training credits.

Remember, there is no grace period. Operators who fail to meet minimum continuing education requirements will lose their certification. They will be required to start over by submitting a new application and passing the certification examination. Individuals not currently certified as operators can earn contact hours toward pre-certification experience by successfully completed approved training courses.

ARRO's next class, Troubleshooting and Optimizing Ponds & Lagoons, will be held at the Sheraton Inn Great Valley in Frazer on August 25, 2005. The cost is \$125.00 per person and includes lunch as well as training materials. For more information about ARRO's training program, including specific course content or agendas, or to schedule a particular course at a location near you, contact Todd Mace, ARRO's operations manager, at 717-278-3505 or via electronic mail at todd.mace@thearrogroup.com.

Check the accompanying table for the complete list of courses (including contact hours earned upon successful completion) currently offered by ARRO. Note that successful completion of some courses counts toward continuing education requirements for both water and wastewater should participants have dual certifications. Keep in mind that during the initial three-year renewal cycle fewer education hours are required than will be required during subsequent three-year renewal cycles. Most wastewater operator need 15 continuing education hours during the first three-year renewal cycle; the number increases to 30 hours during subsequent three-year renewal cycles.

Course ID No.	Course Name	Contact Hours Earned
1027	Heartover First Aid, Cardiopulmonary Resuscitation, & Automatic Electronic Defibrillator	7 (Water & Wastewater)
1034	Operator Health & Safety Survival Guide	6 (Water & Wastewater)
1085	Troubleshooting & Optimizing Activated Sludge Processes	6 (Wastewater Only)
1380	Troubleshooting and Optimizing Ponds & Lagoons	6 (Wastewater Only)