

WATER ENVIRONMENT FEDERATION

WILLIAM D. HATFIELD AWARD

...recognizing operators of wastewater treatment plants for outstanding performance and professionalism. The recipient must be a member of WEAT and must have a successful system of reports to superiors that satisfy information requirements and provide a forum for suggestions for improvements. The candidate must have a good public relations program and must contribute to the dissemination of information concerning advancements in the field.

William Lewis "Bill" Tatum

William Lewis "Bill" Tatum received his Associate in Applied Science from Tarrant County Junior College (Hurst, Texas) and a Bachelor of Business Administration from North Texas State University (Denton, Texas). He joined the Trinity River Authority of Texas in 1974 as Operator 1 and has since contributed significantly to the success of one of Texas' largest wastewater treatment plants, the Central Regional Wastewater System. During his 28 years at the plant, he has worked in various capacities throughout the Operations and Maintenance departments of the CRWS project and has served as Project Manager of the plant since 1985. Mr. Tatum has held a Class A Water and Wastewater Certificate of Competency since 1980. He is a member of the Water Environment Federation and has recently received membership in the WEF Quarter Century Operators' Club. Other professional memberships include the Water Environment Association of Texas, American Water Works Association, White Rock Water Utilities Association, and the Texas Water Utilities Association in which he is a member of the Double -A- Club.

As Project Manager, Mr. Tatum is responsible for all matters pertaining to CRWS including the maintenance, administration, and operation of the facility. In 1959, the Central Regional Wastewater System was placed into operation with 28 miles of pipeline to serve four member cities. Over the years the plant has expanded to reach to over 200 miles of large interceptor sewers serving all or part of 21 contracting parties. Current plant capacity is 100 million gallons per day with top rate capacity of 162 MGD. Growth of the plant has been dictated by the growth of the customer cities that utilize the facility and by the urban growth surrounding the facility. Mr. Tatum has been instrumental in his foresight of this growth with his implementation of numerous innovative technologies at the facility. He actively blends his hands-on knowledge of the treatment process with new technology concepts from some of the best minds in the industry. Under his guidance, the Central Regional Wastewater System has implemented a number of successful programs including a cost-effective Biosolids Management program in which the sludge is dewatered using both filter and belt presses to produce a 35% dry product with 100% land application. By utilizing such features as fine bubble membrane diffusers in aeration basins as well as automated sampling and analysis techniques, CRWS has produced seven continuous years of high-quality effluent with less than 2 mg/l of TSS/CBOD discharged annually. Under his direction, the plant has instituted a program of odor analysis to evaluate sources and impacts including a highly sensitive H₂S meter, pilot testing of sand biofilters, and organic biofilters. Due to his efforts, emissions have been minimized by stripping sulfides for sludges prior to belt presses. He has recommended innovative scavenging systems to collect foul air from belt filter presses, utilized bioscrubbers, instituted a foul air collection system-monitoring program, initiated a test program for evaluating lava rock biofilter, and evaluated utilizing aeration basins for foul air scrubbing.

Mr. Tatum fully supports a comprehensive Safety Program encompassing every aspect of the system including an employee-training program that begins on the employee's first day, an Employee Safety Committee, an Annual Safety Awareness Day, Confined Space Training and competitions, and emergency response training. He actively works with the CRWS employee safety committee and attends the monthly Dallas County Local Emergency Planning Committee meetings.

Mr. Tatum encourages his operators to excel to achieve the outstanding performance and plant efficiencies that have been recognized at both the state and national levels. As a result of his commitment to excellence and his innovative incorporation of new technology into the plant processes, the Central Regional Wastewater System has been honored numerous times for its successful treatment programs. The Texas Natural Resource Conservation Commission has rated CRWS as the best large plant in the state of Texas. The Environmental Protection Agency has recognized the CRWS by twice rating it the best large-scale treatment plant in Region VI and one of the best ten plants in the nation and has bestowed the Region 6 Excellence Award to the plant (1986, 1996, 1999). The Texas Safety Association presented the plant its Award of Achievement in 1996 and its Award of Merit in 1997. The Water Environment Federation has designated TRA as a co-winner of the prestigious Outstanding Achievement in Water Quality Award. CRWS has also received the Platinum Award (1998) from the Association of Metropolitan Sewerage Agencies (AMSA), the AMSA Gold Award (1986, 1987, 1994, 1995, 1996, 1997, 1999, 2000), and the AMSA Silver Award (1988, 1991, 1992, 1993). Mr. Tatum is recognized as the moving force behind these many awards bestowed upon CRWS over the years.

Mr. Tatum has represented both TRA and the wastewater treatment plant operations profession extremely well through his involvement and support for Operations Challenge activities at the state, regional, and national levels. His facility has hosted the Regional Operations Challenge competition for two years and has encouraged his facility to sponsor its own Operations Challenge team, the TRA CreWSers. He has offered his facilities and staff to assist in WEAT's Confined Space Safety Seminar and WEAT's Clarifier Optimization Seminar, and he has offered his plant's conference room to host local North Texas Section meetings. He conducted CRWS plant tours as part of the 1996 WEFTEC program and encourages plant tours for local schools as well as for delegations from sister plants in the state.

In short, Mr. Tatum takes pride in his work, in his plant, and in his co-workers. And they take pride in him.

WATER ENVIRONMENT FEDERATION

LABORATORY ANALYST EXCELLENCE AWARD

...recognizing individuals for outstanding performance, professionalism and contributions to the water quality analysis profession. The honoree must be a member of WEAT, must be employed in a laboratory which performs wastewater-related analysis, and must have direct analytical responsibilities. The candidate should be involved in professional associations, committees, taskgroups, etc.; should demonstrate outstanding efforts in wastewater and environmental aquatic analyses; should be involved in community activities or public relations; should participate in presentations at professional meetings relevant to water quality analysis; should have professional certification; should make beneficial contributions to the candidate's facility; and should generally demonstrate service "beyond the call of duty".

Michael A. McCall

Michael A. McCall received a Bachelor of Science Degree in Range Science from Texas A&M University in 1991. He holds Wastewater Treatment Plant Operator Certification Grade "D", Texas Parks and Wildlife Scientific Permit, and Oil Field Incident Response Certification. He has been employed by the Guadalupe-Blanco River Authority since 1991 as a laboratory analyst and field technician. His primary responsibilities include performing nutrient, heavy metals, bacterial, and other routine chemical analyses. He performs water sampling at various sites within the GBRA basin to determine that water quality standards are met. He interacts with laboratory customers to answering questions concerning water quality and helping homeowners solve water problems. He is often called upon to explain laboratory results to operators and city officials and to help with process control of wastewater and water treatment facilities.

Mr. McCall also performs routine and complex chemical, bacteriological, algae, and physical tests and analyses of raw, partially treated, and treated potable water and wastewater. He determines efficiency of plant processes and ensures plant effluents and natural streams meet local, state, and federal regulations through laboratory testing. He operates and maintains complex laboratory instrumentation, provides technical advice and instruction through customer and community inquiries, and consults with other professionals. He is responsible for training new personnel to perform laboratory tests, data management, water quality sampling procedures and protocols, operation and maintenance of laboratory equipment and quality assurance. He is responsible for lab inventory and custodial functions.

Mr. McCall shows the most initiative and expertise when performing his responsibilities for the GBRA Clean Rivers Program. The GBRA partners with the Texas Natural Resource Conservation Commission to administer the Clean Rivers Program for the Guadalupe River and Lavaca-Guadalupe Coastal Basins. The Texas CRP is managed by the TNRCC and the GBRA carries out the water quality management efforts in the basin under contract with TNRCC. There are four major elements to the CRP: water quality data collection, special studies, data analysis, and communicating results and study information. Mr. McCall coordinates all field data collection and sampling for the GBRA monitoring program that includes 28 monitoring locations. He performs biological sample collections as well. He manually measures flow at many of the sites. He collects samples for heavy metals analyses using "clean" sampling techniques.

This collected data is used in the assessment of streams, lakes and tributaries in the CRP basin by TNRCC in preparation of the state 305b report to the U.S. EPA. It is critical that the sample and data collection be done accurately and with a great deal of attention to quality assurance. GBRA relies heavily on Mr. McCall's dedication to good quality control practices. Recognizing his expertise and excellent techniques, the TNRCC often calls upon Mr. McCall to assist in training and assistance to other CRP partners across the state.

In addition to his routine monitoring duties, Mr. McCall has worked on special GBRA-CRP sponsored projects. He collected data and samples in support of a project to investigate the effects of poultry operation on the tributaries of the Guadalupe River. His experience and expertise were especially challenged in two projects that required collection of sediment samples on the hydroelectric lakes in the GBRA basin. He assisted in the compilation of findings and final reports on all of these special projects.

Mr. McCall is also GBRA's field investigator for reported spills and water quality complaints. He has been trained in spill containment and investigations. He is the "go to guy" when an emergency situation arises in the basin.

In addition to serving the constituents in the Guadalupe River Basin through his employment by GBRA, Mr. McCall also spends numerous hours sharing his love for the environment with the community. He trains and monitors individuals, groups, and/or organizations that want to become volunteer Texas Watch Monitors. He is on the board of directors for the Seguin Outdoor Learning Center, the Guadalupe County Buck Fever organization to further outdoor education in area schools and coaches little league baseball, basketball, and soccer in his spare time. He also assists local students with science fair projects and has acted as judge for area science fairs. He is actively affiliated with the Texas Water Utilities Association and the Guadalupe County Wildlife Management Association.

Mike McCall's capable performance of duties, his devotion to environmental issues, and his willingness to promote water quality in every way possible presents the picture of a true professional. His dedication, interest, and enthusiasm deserve recognition.

WATER ENVIRONMENT ASSOCIATION OF TEXAS

WINFIELD S. MAHLIE AWARD

...recognizes a member of WEAT who has made significant contributions to the art and science of wastewater treatment and water pollution control.

Fariborz "Farr" Fakheri

Mr. Fariborz "Farr" Fakheri attended college at Henderson County Junior College in Athens, Texas; Lamar University in Beaumont, Texas; and received a Bachelor of Science Degree in Civil Engineering from the University of Texas at Arlington in 1980. He earned a Master Degree in Business Administration from Southern Methodist University in 1997. He is licensed to practice engineering in the State of Texas. He is a member of the Water Environment Federation, the Water Environment Association of Texas, Texas Water Utilities Association, and is Dallas representative to the Texas Association of Metropolitan Sewage Agencies. He has been the recipient of numerous awards and honors during his career.

Mr. Fakheri began his career with the City of Dallas Water Utilities Department in 1982 as Engineer Assistant at Southside Wastewater Treatment Plant. He was responsible for conducting efficiency tests for various treatment processes, providing technical information to the Plant's operational and maintenance personnel, and providing assistance to contractors and consulting engineers for capital improvement projects. In 1983, he was promoted to Construction Engineer responsible for administration of construction contracts including implementation of the City's quality control/quality assurance program.

In 1987 Mr. Fakheri was promoted to Project Manager/Construction Manager responsible for development and implementation of Southside Wastewater Treatment Plant Flood Protection Improvements, City of Dallas Residuals Master Plan, and several other projects at Central and Southside Wastewater Treatment Plants. Mr. Fakheri administered thirty-seven engineering and construction contracts with costs in excess of \$100 million during his tenure in this position.

In 1997 Mr. Fakheri was promoted to Senior Program Manager responsible for the Southside Wastewater Treatment Plant. As Program Manager, his responsibilities include: operation and maintenance of 110 MGD facility; supervision and leadership responsibility for 130 plant employees; residual processing and disposal for the City of Dallas wastewater treatment plants. He is also responsible for administration of over \$15 million per year operations and maintenance budget and coordination of over \$35 million per year capital improvement budget.

Farr Fakheri has devoted his entire career to the water environment industry. For 20 years, he has served this industry to the best of his ability and to make his facility the best it can be. He has worked with new technology to improve the processes wherever possible, and he has sought input from multiple resources to discover that technology. At every opportunity, he tries to educate, coach and mentor his staff in the advancement of new wastewater treatment technologies. He encourages his staff to attend seminars, trade shows, and technical conferences in order to keep abreast of state-of-the-art equipment and technological advances. He has welcomed all plant personnel involved in day-to-day activities at the plant to come forward with their thoughts and suggestions. He is open-minded, decisive, and above all fair to all his colleagues. He listens to suggestions as well as criticisms and acts on them when they contribute to the success of the facility. His spirit of cooperation, his leadership abilities, and his professional demeanor have earned Mr. Fakheri respect from peers as well as admiration from his superiors. Since his appointment as Senior Program Manager, he has vastly improved conditions of the maintenance and operations of the facilities and has instituted capital improvement and operation programs that compliment one another instead of impeding one another. His public relations program with surrounding neighborhoods has made the utility and the community true partners in plant expansion and operation. His thorough technical knowledge of the wastewater treatment industry, his involvement with community outreach and public education activities, and his understanding of project management are balanced with an excellent record of client service. His tireless efforts of striving to improve the maintenance procedures and his insightful contributions in maximizing the benefits from capital improvement projects are evident from the exceptional and consistent performance of the Plant. During his tenure, the Southside Plant has continuously met permit, even during extended and ongoing periods of extensive construction. Under his leadership, the Southside Wastewater Treatment Plant has become one of the top plants in the nation.

WATER ENVIRONMENT ASSOCIATION OF TEXAS

OUTSTANDING MUNICIPAL OPERATOR OF THE YEAR

...presented to a municipal wastewater treatment plant operator in the State of Texas who has demonstrated outstanding professionalism at his/her facility and has performed his/her duties tirelessly and with dedication to the betterment of the water environment. The nominee must be a member of WEAT and must maintain a current operator's license in the State of Texas. He/she shall be involved in the day-to-day activities at a single plant for at least one year preceding the nomination. The operator shall continually strive to improve professionally through training seminars and classes and shall actively participate in education of the public through such activities as plant tours.

Devrus C. Deal

Devrus C. Deal is a graduate of Peaster High School in Peaster, Texas. He pursues ongoing education and has certificates of completion from numerous training classes including: Padgett-Thompson seminar on Management Skills for the New Supervisor; the TNRCC 20-Hour Advanced Laboratory School, Laboratory Calculations, Record Keeping, and Quality Control; the Technical Services Training Group Hazard Communication Training; Texas A&M Basic Water Works Operation (Home Study); TWUA 20-Hour Water Distribution Unit V; Texas A&M 20-Hour Wastewater Treatment (Home Study); Texas A&M 20-Hour Wastewater Collection; Texas A&M 20-Hour course in Chlorinator Maintenance; Texas A&M 20-Hour Basic Wastewater Operations (Home Study); Texas A&M Utilities Calculations; TWUA 20-Hour Utilities Management Course; Texas A&M Unit 3 Wastewater Operations; and California State University-Sacramento Operation of Wastewater Treatment Plants. He holds Class "B" Wastewater Treatment License and Class "C" Water Distribution License in the state of Texas. His plans include testing for Class "A" license in 2002. He is a member of the Water Environment Association of Texas. He is an active member of the North Side Baptist Church in Weatherford, Texas, where he works with the Royal Ambassador program.

Devrus Deal entered the U.S. Navy as a machinist on the USS Kitty Hawk in 1982. At the end of his tour of service, he worked in Operations and Maintenance for a food processing plant in Perth, Australia, and progressed to Supervisor there after four years. On returning to Weatherford, Texas, he began his career in wastewater treatment as an operator at the Weatherford Wastewater Treatment Plant and Laboratory and worked his way up to Supervisor after eight years. For his ten years' association with the Weatherford WWTP, Mr. Deal is recognized by all as an exemplary employee. He displays a strong work ethic in everything he does. He has moved up through the ranks and has performed well in all the stations he has been involved with. He exhibits a great deal of passion for his job. He is always developing ways to increase the efficiency of the plant and facilitate its operation. His eye for detail enables him to picture what is needed and then make it a reality. He is known as a working manager involved in the day-to-day activities of the plant. It is customary to find him in the lab, cleaning tanks, pressing sludge, and doing general plant maintenance. He emphasizes that he and his staff are a team effort, and as such is a well-respected leader. His participatory management style empowers his staff by delegating responsibilities. He always makes time to answer questions and give advice to his staff. If he does not readily know the answer, he researches until he finds it. He is genuinely concerned about the plant and its operation, and this is evident in his work and his attitude and that of his employees. He is known to those who work with him to be one of the most capable wastewater treatment plant operators and laboratory supervisors in the industry. His dedication to the plant and its operation is unmatched except perhaps by his attention to the minute details in the lab. He continually developed new and innovative ways to make the plant operate more efficiently. His strong grasp of laboratory methodologies and the desire to implement the methods and record keeping requirements with precision and accuracy make him a valuable employee. Among his many accomplishments, he set up a QA/QC program for the lab. He used statistical analysis to set in-house parameters for various analytical controls. He established quarterly laboratory QA challenges for his operators. He has received excellent reviews from TNRCC and EPA on the operations of the Weatherford plant and laboratory. There have been no excursions during his tenure as plant manager. The plant has been recommended to other municipalities for assistance in problems.

Throughout the years, Mr. Deal has shown an interest in educating the public on the workings of the plant. One of his favorite activities is conducting plant tours, and the bigger the crowd, the better he likes it. He especially enjoys working with children and encourages them to ask questions. He constructed a scale model of the City's wastewater treatment plant in 1995 to be used for "show and tell" during a half-day class for gifted and talented grade school children. Made of blocks of wood, posterboard, string, and lots of glue, the model of the plant is still being used in demonstrations today. It has even been used in City Council meetings to demonstrate how the plant functions to City Board and Council members. He always is the first to volunteer for any special functions pertaining to wastewater treatment or utility projects and has presented several wastewater treatment and environmental presentations at local elementary schools.

WATER ENVIRONMENT ASSOCIATION OF TEXAS

MEDAL OF HONOR FOR HEROISM

...presented to an individual (or group of individuals) from the State of Texas who has demonstrated exceptional courage and bravery in the performance of a single act of heroic behavior toward his/her fellow man. The honoree must be a member of WEAT and must have acted in either personal or professional life to perform the act of heroism; OR may be any Texas resident who has performed the act of heroism while involved in activities related to the water environment industry.

James A. Elam

Mr. James Elam has been a Lower Colorado River Authority water and wastewater treatment system operator for nine years in the City of Smithville, Texas. Many operators in small cities and towns serve double duty by also serving on their local volunteer fire departments. Water and wastewater utility operators are used to being on call for emergencies. They also have expertise in dealing with water pressure and toxic gases. James Elam is no exception, and last year, he used these skills to do something exceptional.

On November 16, 2000, Mr. Elam was sleeping peacefully when his dogs started barking. He awoke and checked outside to see smoke coming from a house nearby. He ran back inside his house to call 911 and then rushed over to the burning building.

By the time he arrived, a Smithville police officer had also arrived. The house was filled with smoke, so they knocked on the doors and windows. Mr. Elam, also a volunteer fireman, knew that an elderly man, Joe Wilson, lived alone in the house. He and the policeman kicked in the front door and entered the smoke-filled house. On locating the unconscious Mr. Wilson where he had been sleeping on his couch, Mr. Elam roused the man and took him to safety. By the time they came out of the house, the rest of the volunteer fire department had arrived to put out the fire.

Had it not been for the quick reporting of the fire by James Elam and his disregard for danger, a neighbor might have died in the fire last November. James Elam saw a need and acted on it. His bravery and courage deserve our recognition.

Mr. Elam is a member of WEAT.

WATER ENVIRONMENT ASSOCIATION OF TEXAS

MUNICIPAL WASTEWATER TREATMENT PLANT OF THE YEAR

...presented to a municipal wastewater treatment plant in Texas that has consistently exhibited outstanding performance of daily activities beyond the normal call of duty.

City of Dallas Southside Wastewater Treatment Plant

The award-winning Southside Wastewater Treatment Plant provides wastewater treatment for the eastern portions of the City of Dallas and is recognized for consistently producing effluent meeting or exceeding all quality standards. The plant is part of the Dallas wastewater system, which today includes 1.3 million people and ten neighboring customer cities. The system conveys wastewater through more than 4,000 miles of pipes to the City's two treatment plants – the Southside Plant and the Central Wastewater Treatment Plant. Together, these plants treat as much as 450 million gallons of wastewater a day.

Constructed in 1966, the Southside Plant was expanded in the late 1970's to include secondary treatment. It was again expanded in the mid-1980's to 90 million gallons per day (MGD) capacity. Because of the plant's demonstrated performance, the Texas Natural Resource Conservation Commission (TNRCC) re-rated the plant capacity in 1998 to 110 MGD unconditionally without requiring any modification or construction. In addition to liquid treatment, the Southside Plant also processes and disposes of all residuals that are produced at the two City of Dallas wastewater treatment plants.

The Southside Wastewater Treatment Plant is an excellent example of a municipal treatment plant that is well maintained and efficiently operated without compromise to the health and safety of the plant staff, the public, and the environment. Because of its excellent operation and maintenance strategy, the plant consistently exceeds stringent permit limits. The Southside Wastewater Treatment Plant has received nine consecutive Gold Awards and one Platinum Award from American Municipal Sewerage Agencies (AMSA) in the last nine years for consistently meeting its permit parameters. The plant's permit parameters are set TNRCC at: TSS 15 mg/l, BOD 7 mg/l, DO 5 mg/l, and NH₃ 3, 4 mg/l.

The facility has a safety section with an on-site safety officer, hazardous material technician emergency response team, and well-documented safety programs that include Risk Management Plans, emergency safety plans, and an on-site hazardous response team. The safety section keeps historical records of incident rates. The plant also keeps historical records of operating data and annual reports dating back over twenty years. A team of operators, all certified by TNRCC, operates the plant. In addition, well-qualified maintenance personnel use a computerized maintenance program to maintain all facilities in an optimum performance condition.

The Southside Wastewater Treatment Plant provides a forum for the involvement of the public through its Citizens Advisory Committee and public education through plant tours for schools and colleges. Plant personnel also provide off-site training for Boy Scouts of America to explain and demonstrate the effects of wastewater treatment and the environmental impacts of such treatment. The plant continues to be a good neighbor by improving plant aesthetics and construction of state-of-the-art odor control facilities.

WATER ENVIRONMENT FEDERATION

GEORGE W. BURKE, JR. AWARD

...recognizes an active and effective safety program in municipal and industrial wastewater facilities. The recipient plant must have a documented and illustrated safety program and safety record for the preceding calendar year.

City of Corpus Christi Greenwood Water Recycling Plant

The Greenwood Water Recycling Plant was originally known as the Westside Plant. The Westside Plant was constructed in 1959 to treat wastewater for the City of Corpus Christi in order to protect public health and the water environment. The plant currently receives sewage flows from a service area of approximately 28,966 acres with a population of approximately 47,800 persons. While most of the sewage is from domestic sources, several industrial customers discharge into the collection system. The collection system has seven lift stations and 72 miles of sewer lines, ranging in size from 6 to 60 inches in diameter. The plant currently covers 14.7 of the City's 90 acres available on the plant property.

It is the policy of the City of Corpus Christi Wastewater Department to provide a safe working environment for all of its employees, subcontractors, and citizens who are in or around any of its facilities or work areas. The policy is dedicated to the physical and mental well being of each employee. It encourages employees to think "*Safety First*" at all times. All employees of the City of Corpus Christi Wastewater Department are assured of the time, resources, and open communications needed to provide a safe working environment.

In order to make its policy a reality and provide a systematic method for reducing the number of accidents in the workplace, the City of Corpus Christi Water Department has developed the Safety Improvement Program Manual, an all-inclusive 58-page guide for safety policies and procedures for the utility. The document's detailed "Safety Improvement Procedures" are reviewed annually and revised as needed.

The four main points in the Safety Program are:

1. Provide the time, resources, and open communication to implement an effective Accident Prevention Plan.
2. Follow all established rules and regulations of local, state, and federal agencies and enforcement of all Department safety rules and practices.
3. Train all employees in the safety program and department rules to provide a safe working environment.
4. Provide audit/inspections of all facilities, work sites, and fast corrective actions of all recognized hazards.

The City of Corpus Christi Wastewater Department provides employees with training that will prepare the employee to work in a safe manner, and no employee is forced to do a job which he or she has not been trained to do safely. Every new employee must complete a "New Employee Orientation" training class about safety. Refresher training is regularly provided. Mandatory safety meetings are provided monthly. Proper protective equipment is furnished by the utility and must be worn by all employees in the daily performance of duties. Strategically placed safety and health signs remind employees to wear proper protective equipment, to be aware of dangerous locations, to be aware of special hazards, and to be aware of safe behavior. Employees using city vehicles must complete defensive driving courses every three years. Safety audits are performed on an annual basis. Based on results of inspections, on customer or employee complaints, or at random, additional safety audits may be performed without notice. The Wastewater Department investigates and analyzes all incidents, near-miss incidents, and accidents in order to reduce and prevent future accidents. Facility Emergency Response Procedures complete with evacuation routes and safe meeting places are reviewed and practiced at least once annually.

The nine employees at the Greenwood Plant have taken the Safety Improvement Program Manual's requirements to heart and consistently perform their work in a safe, professional, and productive manner. They worked an average of 18,720 hours the previous year and only had two accidents, giving them an accident rate of 21.36. This last year, they are maintaining a 5.36 average. The Greenwood Plant currently has only one reportable incident. The calculations used to calculate the accident rate are from the Texas Safety Associations' Occupational Health and Safety Award.

The employees at the Greenwood Plant, with the full support of the City of Corpus Christi and its Wastewater Utilities Department, have proven that their dedication and responsibility to their work and to their co-workers can make a difference in their occupational health and safety and in their work practices.

WATER ENVIRONMENT FEDERATION

QUARTER-CENTURY OPERATORS' CLUB

Membership honors operators of wastewater treatment plants for service and dedication in a difficult and dangerous field. The honoree must be a member of WEF and must have been a significant, full-time participant in the water environment industry for a period of 25 years, 10 years of which must have been actively involved in the day-to-day collections, maintenance, operations, laboratory, or management of a wastewater treatment facility.

Patricia Malone Cleveland

Patty Cleveland is a 1976 graduate of Texas Wesleyan University with a degree in Biology/Chemistry. She began her career with Trinity River Authority in 1976 as a Biologist in the Central Regional Wastewater System laboratory. Her tenure with the Authority since then can best be characterized as a continuing demonstration of her complete competence. She was promoted at a rapid pace to progressively more responsible positions and assumed the position of Manager of Laboratory Services in 1981. Following a Central System management reorganization, she was promoted to the position of Manager of Technical Services in 1985. In this capacity she was responsible for expanding the responsibilities of the laboratory to accommodate the federally required industrial pre-treatment program; assuming responsibility for interceptor pipeline surveillance, maintenance and rehabilitation; flow metering and the division of 20 cities' flows and financial obligations to the system; review and coordination of pipeline construction; and providing technical services to other Authority operating projects on a fee basis.

In 1995, Ms. Cleveland was promoted to Manager of Wastewater Services Planning for all of the Authority's Northern Region wastewater facilities. In this capacity, she was responsible for planning and design of all wastewater pipelines in TRA's Northern Region. In 1996, she was promoted to her current position of Manager of Operations. In this capacity, she is responsible for the management of all operating projects in TRA's Northern Region to include water treatment, wastewater treatment, water supply, and recreation facilities. These projects provide essential utility services to over one million people.

In addition to her full time professional responsibilities, Ms. Cleveland maintains a very busy schedule in regard to professional associations with a particular emphasis on the Water Environment Association of Texas and the Water Environment Federation. She has been a member of WEAT and WEF and their predecessor organizations since 1984. She has been a member of the Texas Water Utilities Association and the North Texas Laboratory Analyst Association for over 20 years. She has served as Treasurer, Secretary, Vice-President and President of the North Texas Section of WEAT; served as Chairman of the WEAT Dallas/Fort Worth Science Fair for a number of years; assisted with arrangements or served as Chairman for numerous special WEAT seminars; served as state Treasurer for WEAT; served as a member of a WEF national subcommittee concerned with the whole effluent toxicity in permits; served as a key member of the Local Host Planning Committee for the international WEFTEC '96 Conference in Dallas; and served as Co-Chair for planning the Texas Water '97 Conference in Arlington.

In honor of her outstanding service and achievements as a member of WEAT/WEF, Ms. Cleveland was the recipient of WEF's prestigious Arthur Sidney Bedell Award in 1996.

WATER ENVIRONMENT ASSOCIATION OF TEXAS

SYDNEY L. ALLISON AWARD

...presented to a person/entity who has made significant contributions to the engineering, science, and/or operation and maintenance of wastewater collection and pumping stations with the mission to transport wastewater to a treatment plant.

Jeffrey John Haby, P.E.

Mr. Jeffrey John Haby graduated from Texas A&M with a BS in Civil Engineering in 1987 and an MS in Civil Engineering in 1993. He is a registered professional engineer in the states of Texas and Missouri. Between 1991 and 1995, he worked on environmental engineering projects with Burns & McDonnell in Kansas City and Raba Kistner. In 1995, he went to work for CH2M Hill where he was a team leader for six other environmental engineers.

In 1997, Mr. Haby joined the San Antonio Water System (SAWS) where he initially managed in-house design staff and survey staff, supervising the completion of more than \$10 million in design work annually. He was instrumental in developing the specifications and projects in the SAWS trenchless rehabilitation program. From 2000 to the present, he has worked in the Master Planning area at SAWS where he oversees the development of SAWS water and wastewater planning projects. In this capacity, he has greatly enhanced the efforts to model the water and wastewater systems, has worked to develop a comprehensive collection and treatment plan for the wastewater system, and has been heavily involved in planning for the integration of other water resources into the San Antonio system.

Mr. Haby has played an integral part in the planning process for wastewater collection and treatment in San Antonio where he has been instrumental in developing the scope of the SAWS Wastewater Collection/Treatment Alternatives Assessment. This study, a complex effort to examine numerous scenarios to provide adequate wastewater treatment capacity to the region, is the first wastewater master plan conducted by SAWS which considers collection, treatment, and recycle water inter-relationships. His influence and leadership can be seen in every step and every decision of this plan. Under his guidance, even amid staff changes in every department, the study's recommendations are being implemented successfully. Significant collection system flow monitoring and physical inspection work are progressing in the Western Watershed, and plans to close one aging treatment facility and to re-rate SAWS' largest plant are underway. A significant part of the Assessment Plan is a review of the collection system condition to identify the most cost-effective measures to convey raw wastewater to existing and proposed treatment sites. Mr. Haby emphasizes measures for managing growth and addressing the needs of an aging infrastructure while at the same time championing asset management and recycling to conserve fiscal resources.

In spite of the heavy demands of Mr. Haby's career, he has been instrumental in the formation of the local San Antonio chapter of the Water Environment Association of Texas where he has invested considerable time and personal resources to encourage membership growth. He has worked to share information and bring about a give-and-take interest among its members, the local utility systems, and the consultants. According to some sources, without his commitment and work, it is doubtful the local chapter of WEAT would continue to exist.

Mr. Haby's is recognized by all for his emphasis on teamwork, his dedication to his work, and his integrity. He has earned the utmost respect from his peers at SAWS and from the consulting community in San Antonio.

WATER ENVIRONMENT ASSOCIATION OF TEXAS

LIFETIME ACHIEVEMENT AWARD

...presented to an individual who has demonstrated continual and tireless contributions toward the improvement of the water environment throughout a long and distinguished career in the wastewater treatment industry and in WEAT/WEF.

Dr. Earnest F. Gloyna, P.E., D.E.E.

Dr. Earnest F. Gloyna received a B.S. in Civil Engineering from Texas Tech College in 1946; M.S. in Civil Engineering-Sanitary (with minors in Chemical Engineering and Business Law) from The University of Texas at Austin in 1949; D.E.E. in Sanitary Engineering and Water Resources (with minors in Chemistry and Microbiology) from John Hopkins University in 1953. He has been named Distinguished Graduate at all three universities and is the 1997 recipient of Outstanding Educator Award from the Austin Area Texas Exes, University of Texas. He has been elected to six honor societies and has been listed in ten publications of Who's Who in Engineering and Science.

Upon ending his military service in the U.S. Army's Aviation Engineering Battalion as Lieutenant Colonel Retired at the end of World War II, he entered the engineering profession with the Texas Highway Department and later the Magnolia Petroleum Company. From 1947 to 2001, he was a member of the faculty at The University of Texas at Austin where his positions included Instructor, Chaired Professor, Director of Environmental Engineering Programs, Director of the Water Resources Center, and lastly Dean of the College of Engineering for 17.5 years. He has been the quintessential water and environmental educator. Of his many achievements in education, one of the most noteworthy would be his influence on the excellent performance of his 140 graduate students whose work in water and wastewater improvement can be traced around the world.

As a testament to his prolific career, Dr. Gloyna has authored and co-authored 250 papers and three books. He has been editor and contributor for five additional books. He has authored and co-authored seven U.S. Patents. His primary contributions to waste treatment has been directed to: fate and transport of pollutants, primarily industrial pollutants, including radioactive wastes; industrial wastewater treatment; development of new processes and design modifications for advancing wastewater treatment in both the developed and developing countries. His expertise has made him a highly sought after speaker on water and wastewater topics at conferences worldwide.

His contributions to the educational and environmental fields have garnered awards too numerous to list including seven international awards and medals, 28 national awards and medals, and 9 state awards and medals. In addition, he has been elected to the National Academy of Engineers in three countries. From over two million practicing engineers in the United States, only about 1,700 have achieved election into this Academy. From the Water Environment Federation alone, he has been the recipient of the Harrison Prescott Eddy Medal, the Gordon M. Fair Medal, Honorary Membership Award, and Arthur Sidney Bedell Award. As a forum for excellence in research in water professions, the Water Environment Association of Texas honors him at their annual Texas Water conferences with the Gloyna Breakfast.

Dr. Gloyna has taken an active and serious role of leadership in many, diverse professional organizations. He became a Member of the Water and Sewage Works Association and the American Water Works Association in 1948 and attended his first regional meeting of the Southwest Water and Sewage Works Association in Oklahoma City that same year. Following advice from Mr. Vic Ehlers and Mr. Able Wolman, his early mentors, he devoted his time and many talents to serving the organization and leading it to success. Along with Mr. Art Busch and Mr. John Wold, he was one of the founding members of the Texas Water Pollution Control Association (now WEAT) when it branched off from the Texas Water Utilities Association in 1960. He served as President of WEF in 1983-84; President of Texas Society of Professional Engineers in 1986-87; President of American Academy of Environmental Engineers in 1982-83. He has served as Chairman of Environmental Protection Agency's Science Advisory Board in 1981-83; Chairman of the Texas Board of Registration 1992-93; Chairman of Committees and Panels, National Research Council, National Academy of Engineers and National Academy of Science. He has served as Chairman of the Texas Engineers Task Force on Homeland Security (2001) with the mission to provide technical assistance to the State Task Force and to create an organization that can sustain such assistance for the long-term. He has Chaired and been a member of many various Texas Water Resource and Conservation Committees and has been a Director of many different companies and technical organizations. Over the years, Dr. Gloyna has been involved in every aspect of these many organizations. He has contributed to their evolution and in many cases has left his own indelible mark of excellence upon them.

Dr. Gloyna has had a significant impact on the field of environmental education and the water environment industry as a whole, and the world is a better place because of his many contributions. Over the years, his encouragement, admonishments, suggestions, and ongoing interest have left an indelible mark on his students and colleaguesand they are legion!

WATER ENVIRONMENT ASSOCIATION OF TEXAS

EMERGING LEADER AWARD

...presented to a young member of WEAT who has provided outstanding service in support of the Association in the form of committee involvement, recruiting, volunteer time, event participation, or other contributions. The recipient shall be under 36 years of age at the time of nomination, shall have served on at least one state or section or ad-hoc committee, and shall have not previously won a WEAT award.

Michael F. Bloom

Michael F. Bloom presently is a water quality consultant with PBS&J in Houston where he specializes in Clean Water Act compliance activities such as storm water quality management and permitting, pretreatment programs, wastewater permitting, and water quality management including development and implementation of Total Maximum Daily Loads (TMDL). he is a registered professional engineer in Texas, New Mexico, Louisiana, Mississippi, Alabama, and Pennsylvania.

Mr. Bloom has been an active member of the Water Environment Federation since 1995 and has been involved in the Water Environment Association of Texas since 1998. At the section level of WEAT, he has formed an ad-hoc committee to review and provide comments on various storm water quality management program documents, criteria, and manuals developed by Houston area municipalities. He has also volunteered to serve as Science Fair Judge on behalf of WEAT at the junior high and high school level competitions in Houston. At the state level, Mr. Bloom has served on the Texas Water Technical Program Committee since 1999 and in 2000 agreed to co-chair the first WEAT Young Professionals Committee. During the last two years, he has helped the committee to conduct new member recruitment, encourage YP involvement in WEAT activities, provide volunteers for various WEAT and WEF events, create membership materials, and design and conduct YP programming at Texas Water Conferences. He has presented technical papers at Texas Water 1999 and Texas Water 2000 and is a speaker for Texas Water 2002. For Texas Water 2001, he served as a general conference volunteer and as a moderator for the water quality technical session. As a Technical Program Committee member, he solicited speakers and identified volunteers to fill session moderator slots. During a recent Texas legislative session, he initiated an effort to develop and submit official WEAT comments to the legislature supporting appropriate state funding levels for the Texas TMDL program.

At the national level, Mr. Bloom has served on WEF's Watershed Management Committee and the Industrial Wastes Committee and on the Conference Planning Committee for a number of national WEF conferences including Watershed 2000 and Watershed 2002, the 2001 National TMDL Science Issues Conference, and the two Industrial Wastes Specialty Conferences. He organized and presented technical workshops related to TMDL's at WEFTEC 2000, a recent Industrial Wastes Specialty Conference, and the 2001 National TMDL Science Issues Conference. He is currently on the Conference Planning Committee for the upcoming 2002 National TMDL Science and Policy Conference scheduled for November in Phoenix, Arizona. Mr. Bloom has played an active role in a WEF Government Affairs Committee workgroup convened to draft official WEF comments on the proposed changes to the TMDL rule issued by EPA in August of 1999. During the comment period for the 1999 proposed changes to the TMDL rule, he served as a discussion facilitator at one of the WEF/EPA sponsored national public meetings on the rule in order to avoid possible EPA implementation of the program.

WATER ENVIRONMENT ASSOCIATION OF TEXAS

EMERGING LEADER AWARD

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Rebecca Patterson Guthrie

Rebecca "Becky" Patterson Guthrie grew up in Highland Village, Texas. She graduated in 1999 with a B.S. in Civil Engineering from the University of Texas at Arlington, where she was a recipient of the Texas Water Utilities Association V. M. Ehlers Foundation Scholarship. She has served various roles in the American Society of Civil Engineers Student Chapter at UTA and was awarded Second Place in the American Society of Civil Engineers State Student Paper Presentation Competition. During her last two years in college, she interned with both the City of Fort Worth Water Utilities Department and Black & Veatch Corporation and continued working after graduation with Black & Veatch designing water treatment plants. She is presently with the City of Denton Engineering Department as an Engineer in Training, where she designs Capital Improvement Projects. Concurrently, she is pursuing a Master's Degree in Business Administration.

Immediately after graduation, Ms. Guthrie developed an interest in and joined the Water Environment Association of Texas North Texas Section. At the section level, she has volunteered her time to help coordinate and solicit sponsors for the annual WEAT North Texas Section Seminar and promote Young Professional involvement in WEAT through section activities. She often takes time to express to managers and department heads how important Young Professionals are to the organization and demonstrates how Young Professionals are the future of the industry. She is presently working on the Stockholm Junior Water Prize to be held in Dallas by recruiting Young Professional involvement as volunteers at the event. In addition, she also volunteers her time for the North Central Chapter of AWWA where she serves as Membership Co-chair.

At the state level, Ms. Guthrie was co-chair of the first WEAT Young Professionals Committee in 2000. During the last two years, she has actively been involved in helping the committee recruit new members, encourage YP involvement in WEAT activities, provide volunteers for various WEAT events, create membership materials, and conduct YP events at the Annual Texas Water Conference. Many of these events have been conducted jointly with AWWA Young Professionals. Her ambition is to continue to recruit young members into WEAT and TAWWA by making them aware of the tremendous amount of benefit they can receive through membership in the organizations.

WATER ENVIRONMENT FEDERATION

SERVICE AWARD

...for distinguished service to the Member Association (WEAT) in the area of Public Education.

Karen Bick

Karen Bick grew up in Michigan and attended the University of Michigan in Ann Arbor where she graduated with a M.S. in Ecological Sciences. After doing atmospheric deposition field work at Isle Royale National Park and later working as a research assistant at an Agricultural Experiment Station in Israel, she started her Texas career as a Technical Intern for the Dallas Water Utilities. In 1987, she began her work with the Region 6 office of the Environmental Protection Agency (EPA) as a permit writer in the NPDES program. In 1989, she was promoted to the Pretreatment Program doing on-site audits and public outreach as well as planning, coordinating, and participating in the annual regional Pretreatment Conferences.

In the 1996 reorganization of the EPA's Water Quality Protection Division, Ms. Bick was assigned the position of Outreach Specialist on the newly formed Outreach Team. It was in this new position as an Outreach Specialist that she initiated her active involvement with the Water Environment Federation and the Water Environment Association of Texas.

During the Dallas WEFTEC '96 Conference, she took an active interest in a full-day teacher-training workshop held in conjunction with WEFTEC for Teachers (now *WEFTeach*). On discovering that the hands-on portion of the workshop would be based upon activities from *The Water Sourcebook* (a supplemental curriculum that had been developed in cooperation with EPA Region 4), she turned this unique opportunity into her first official project as Outreach Specialist. She initiated and helped produce a training video, *Waterwise with the Water Sourcebook*, designed to reinforce (or act as a substitute for) the *WEFTeach* workshop or any other *Water Sourcebook* training. This video has become a valuable informational-promotional tool for these teacher-training programs.

Ms. Bick's first chance encounter with *WEFTeach* was the start of a strong commitment to and active role with WEF's and subsequently WEAT's Public Education Committees. She formally joined the WEF committee in 1998. She began working with WEAT that same year and helped WEAT establish an ongoing relationship with the Science Teachers Association of Texas (STAT), the Texas Environmental Awareness Network (TEAN), and the Texas Environmental Education Partnership (TEEP). Working with these two state-based educational organizations, she concentrated on learning as much as possible about the best approach to working with the formal school system and spearheaded the effort to have *The Water Sourcebook* correlated to both the Texas Essential Knowledge and Skills (TEKS) and the appropriate National Educational Standards.

In 2000, Ms. Bick took on the role of co-chair for WEAT's Public Education Committee and was able to foster and strengthen the WEAT/EPA-Region 6 partnership. She was a leader in formalizing a relationship with the Texas Section-AWWA which resulted in the two organizations co-hosting an exhibit and teacher training workshop at the annual state science teachers' conference (CAST). That joint effort has been informally named ***Partnership for the Promotion of Water Education in Texas*** or ***Texas Partners for Water Education***. This collaboration was a natural extension of the joint WEAT/TAWWA effort to provide a judging team for selecting the Stockholm Junior Water Prize (SJWP)-Texas award recipient. In recognition of her efforts, Ms. Bick was chosen to be a member of the Water Environment Federation's judging team that selected the U.S. SJWP recipient in 2000.

Under Ms. Bick's Co-chairmanship, the WEAT Public Education Committee has made significant contributions to educational issues related to the water environment. Some of the accomplishments of the Committee include: the development of Texas Essential Knowledge and Skills (TEKS) correlation for *The Water Sourcebook*, development of National Education Standards for WS, training and support for sections wanting to do *Water Sourcebook* workshops, development of a professional display used to exhibit at educational events, and development of ***The Complete Water Cycle*** or ***Water ReCycles*** poster. In addition, the Committee has fostered membership/representation with state educational organizations, Texas Environmental Awareness Network (TEAN), Informal Science Education Association (ISEA), and Texas Environmental Education Association (TEEA). The programs have strengthened partnership with EPA Region staff and thus allowed WEAT to leverage EPA expertise with professional graphic design development and production capabilities including: photo panel displays for Membership and Public Education units; SJWP National Competition logos and full page advertisement, *Water ReCycles* poster; and EPA administrative/office support-document preparation, copying and postal services related to Education/Outreach materials.

Ms. Bick has devoted her considerable knowledge and organizational talents to promoting extensive educational processes with regard to our water environment. The health of tomorrow's environment depends on our emphasis on educating our populations today. Through her work in education, Ms. Bick is helping to ensure a successful tomorrow.

WATER ENVIRONMENT FEDERATION

OUTGOING PRESIDENT'S SERVICE AWARD

Mary Evans

Mary Evans attended East Texas State University in Commerce, Texas, where she majored in Biology. For the next eighteen years, she worked for Tyler Pipe Industries as Environmental Coordinator in charge of regulatory compliance for RCRA, CERCLA, SARA, Groundwater Monitoring, Permitting of Solid and Hazardous Waste, Permitting of Wastewater and Stormwater and Recycling. In addition, she was responsible for developing and implementing the laboratory compliance program for Quality Assurance/Quality Control. Since 1994, she has been employed by the City of Tyler as Utilities Laboratory Analyst responsible for the Southside Wastewater Treatment Plant Laboratory.

Ms. Evans has been a member of the Water Environment Federation and the Water Environment Association of Texas since 1987. During this time, she has served on the Public Education Committee as Science Fair Coordinator, Public Education Committee Chair, and International Science and Engineering Fair Specialty Judge. As part of her legacy, she helped develop the program for the National Stockholm Junior Water Prize Competition. In addition, she has served on the WEAT Management Review Committee and as a member of the WEAT Nominating Committee. She has also served in numerous positions in the Northeast Section of WEAT including President, Section Representative, and Public Education Chair.

During her past year as President of WEAT, Ms. Evans has served the organization faithfully and tirelessly. Her attention to detail is witnessed in everything she has accomplished.

WATER ENVIRONMENT FEDERATION

SERVICE AWARD

...for distinguished service to the Member Association (WEAT) in the area of International Relations.

Robert O. Tinstman

Robert O. Tinstman received a B.S. in Zoology from The University of Texas at Austin in 1978. He began his employment with the Texas Department of Water Resources (later the Texas Water Commission) in 1984 as an administrative reviewer of applications for wastewater disposal permits. For the past sixteen years, he has served in various capacities within the operator certification programs and later as team leader of four occupational licensing programs. He is currently a Training Specialist V with the Texas Natural Resource Conservation Commission, Compliance Support Division, Quality Assurance Section. As Training Specialist V, one of his primary duties is reviewing and approving training for occupational licensees. Since 1997, he has directed a series of job analysis projects that determine the important tasks and licensing requirements for occupational licensing and also develops and implements regulatory guidance, serves on rule-making teams, and analyzes legislation every two years. He further works with colleges and universities in developing quality training for environmental occupations.

In addition to his full time career with TNRCC, Mr. Tinstman is dedicated to local, state, and national environmental organizations. He is a member of Bastrop County Environmental Network, Water Environment Association of Texas, Texas Water Utilities Association, and the Sierra Club.

Mr. Tinstman has devoted considerable time to WEAT through his work with the International Liaison Committee. His international activities originated in 1994 when he gave a presentation at La Sociedad Mexicana de Aguas, A.C. and the Asociación Mexicana de Aguas, A.C. (S.M.A.A.C./A.M.A.A.C.) conference in Monterrey, Nuevo León, Mexico, and those activities have been continual ever since that day. He has represented WEAT and supported S.M.A.A.C./A.M.A.A.C through his regular attendance at the conferences and has made a second technical presentation there. In addition, he has welcomed visitors from S.M.A.A.C./A.M.A.A.C. to our country many times and has helped host them at our own annual Texas Water Conferences. As a member of the Bi-National Operator Training Committee, Mr. Tinstman has helped strengthen our ties with our neighbors through his work with operators along our southern Texas border. He has been actively involved in as many as 17 different operator training session events along that border. He has contributed toward the Spanish-language Texas Engineering Extension Service (TEEX) training manual for operators and has helped coordinate the publication with WEAT's Environmental Protection Agency Grant. In addition, he has worked this past year to bring solutions to odor and pollution along the Rio Grand River near La Ciudad Juarez through WEAT-sponsored evaluations of existing problems and development of opportunities for solutions.

WATER ENVIRONMENT FEDERATION

SERVICE AWARD

...for distinguished service to the Member Association (WEAT) in the area of Public Education.

Cathy Henderson

Cathy Henderson was High School Valedictorian and was granted Valedictory and SAT scholarships to the University of Texas at Arlington, graduating with a B.S. Degree in Biology. She has been employed at the Trinity River Authority Central Regional Wastewater System (TRA-CRWS) laboratory for 23 years. She holds Texas Water Utilities Association Class A Lab Analyst Certification and Texas Natural Resource Conservation Commission Class A Wastewater Certification. She has been a TNRCC Certified Wastewater Instructor since 1984, providing training for operations personnel at Trinity River Authority and other municipalities in the surrounding area.

Since joining TRA in 1979, Ms. Henderson has been promoted to increasingly responsible positions beginning with Laboratory Technician II, to Biologist, to Senior Biologist, to Laboratory Supervisor, and has held the position of Laboratory Division Chief for the last five years and Quality Assurance Coordinator for the last two years. She is responsible for a laboratory staff of 21 people. The CRWS laboratory is a full capability environmental lab including ICP analysis of heavy metals; GC/GCMS for organics; biomonitoring utilizing invertebrate and fish species; full bacteriological analysis of potable water, natural waters, wastewaters, and sludges; automated colorimetric analysis of nutrients. Ms. Henderson was key in setting up the TRA-CRWS Laboratory's bio-monitoring laboratory. For her expertise and dedication to her profession, she received the national WEF Laboratory Analyst Excellence Award in 1999.

In addition to her professional duties, Ms. Henderson is involved in numerous professional associations. She has been a member of the Water Environment Federation and the Water Environment Association of Texas since 1992. As a WEAT member, she has acted as mentor of science fair competitors and has judged science fairs since the late 1980's. She served as the Co-Chair of the WEAT Public Education Committee for the last two years and assisted with two mini-CAST meetings. She has been very active in the North Texas Section of WEAT and has served as the Science Fair Committee Chairperson for the group for the last five years. She is also the current North Texas Section Treasurer.

She is a member of the American Water Works Association and two chapters of Texas Water Utilities Association of Texas – the North Texas Lab Analysts' Chapter and the White Rock Utilities Association. For the North Texas Lab Analysts' Chapter, she has served as President (twice), Secretary/Treasurer, and on the Public Relations Committee. For the White Rock Association, she was the first "Woman of the Month", was the first woman President, and also served as Membership Committee Chairperson. She teaches Basic Wastewater Lab for student attendees at the TWUA North Central Texas Regional School, chaired the Wastewater Laboratory Course at the School for five years, and this last year has been responsible as Vice-Chair of personally organizing all 18 training courses. In 1997, Ms. Henderson was the recipient of the TWUA Public Education Award for her efforts toward improving public awareness of the importance of water and the water utilities industry.

For approximately ten years, Ms. Henderson worked with the "Expanding Your Horizons" program held annually at the University of Texas at Arlington. This program provides hands-on training to adolescent girls in grades 6 through 8 by bringing women in math and science careers together with girls at an age when they normally begin to lose interest in math and science courses. She has participated in numerous career day presentations at all grade levels in the public school system to encourage students to pursue environmental careers.

In addition, Ms. Henderson has been involved with the Texas Watch Citizen's Monitoring since 1992, an organization that monitors water quality in water bodies throughout Texas. Ms. Henderson conducts plant tours at the TRA facility for public schools and other interested groups. She attends Career Days at local elementary schools and serves as judge for local science fairs. She performs water quality demonstrations for the Trinity River Awareness Day Volunteers and has participated in "Women in Science" in association with Texas Wesleyan University in Fort Worth.