

TEXAS' FLORA AND FAUNA: Red Tide in Texas



Photo by Barbara Keeler

Through my burning, watery eyes and hacking cough, I surveyed the grisly situation. Thousands of dead fish littered the beach. Hundreds more floated in the rust colored water with mouths agape and lifeless eyes staring, getting pushed in by the incoming tide. The stench was unbearable, particularly because the bottom of the truck was dripping with what I can only describe as “fish goo”. What could have caused such a gruesome scene?

Red tide, a natural phenomenon of the Gulf of Mexico caused by high concentrations of the microphytic algae, *Karenia brevis*, occurs mostly in marine ecosystems. Large concentrations of the algae can discolor the water, causing it to look reddish or brown. The exact combination of environmental factors that trigger a red tide, or **harmful algal bloom** as many researchers refer to it, is unknown, but experts believe that high temperatures, salinities, and

nutrient influx all play a role. Texas red tides mostly occur from August – February in the open Gulf, where they are pushed towards the shore by currents and wind. Last year’s red tide event was one of the largest and longest in recent Texas history, most likely from the severe drought that affected the state. Lack of rainfall and freshwater inflow seems to result in harmful algal blooms, and Texas was extremely short in both of these areas in 2011.

Though naturally occurring, red tides can have devastating effects on marine life. *K. brevis* produces neurotoxic compounds called brevetoxins, which affect the central nervous system of fish and other marine organisms and can have secondary effects on humans, birds, and other terrestrial animals. Some believe that a red tide may be what caused the water to turn to blood, making it undrinkable and killing aquatic life, during the first of the ten plagues that afflicted the Egyptians. After experiencing the effects of a red tide outbreak first hand on the beaches of Corpus Christi, I can say it certainly seems like a plague of Biblical proportions. The red tide bloom that occurred in Texas Gulf waters this year killed an estimated 4-6 million fish. This pales in comparison to the

Continued on Page 3

TEXAS CHAPTER OF THE
WILDLIFE SOCIETY

WWW.TCTWS.ORG

EXECUTIVE BOARD

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EDITOR, JENNIFER M. KORN

Texas Chapter of The Wildlife Society Newsletter is electronically published in January, April, July, and October. Contributions on any topic pertaining to wildlife, announcements of interest to members, or Chapter business are welcome and should be submitted to the Editor (Jennifer Korn, jennifer.korn@students.tamuk.edu) by the 15th of the preceding month. Change of e-mail address should be sent to the Listserv Coordinator (Cristy Burch, cburch@tpwd.state.tx.us). Membership in the Chapter is \$10/yr for students and \$15/yr for regular members, payable to the Treasurer (Terry Blankenship).

A MESSAGE FROM THE PRESIDENT



As I write this, I have settled into my new role for the Texas Chapter, and it causes pause for thought – reflect on our past and look towards our collective future. As many of you know, we recently lost one of our founding members and leaders, Dr. Jim Teer, who was instrumental in establishment of The Texas Chapter – a stalwart and hero for wildlife conservation in

Texas and throughout the nation. We will sorely miss his presence and influence as we continue through the 21st Century. Please be sure to absorb and reflect on his life and contributions in Drs. Selma Glasscock's and Nova Silvy's obituary in this newsletter. With our 50th Anniversary on the horizon, it is not only timely, but important to reflect back on the influence of those who have preceded us, as mentors, leaders, teachers, colleagues, and friends. Attending the Past President's luncheon in Fort Worth crystallized in my mind the magnitude of the leadership the Texas Chapter has had during its history. Our Chapter is a virtual Who's Who in the wildlife profession – it is important for all of our membership to take advantage of that institutional knowledge and experience. While running the risk of sounding too repetitive take advantage of opportunities as they present themselves – as leaders, mentors, and otherwise. Leadership has become a primary and recurring topic since February and will continue to do so as we move forward – become involved and invite others to do the same.

While looking forward (I believe I have this correct now) please welcome our newly elected Executive Board members - Dave Hewitt (Vice-President), Justin Dreibelbis (Secretary), and Jena Moon (Board Member at Large). They join President-Elect Dr. Matt Wagner, Doug Slack (Executive Director), long-time Treasurer Terry Blankenship, Archivist Alan Fedynich, and Past President Alan Cain on our full Executive Board. Please join me in congratulating and thanking Alan and his Committee Chairs on a terrific meeting in Fort Worth – one that exceeded past attendance records and surely set the bar quite high for the 2013 meeting (which will be held at the Hilton DoubleTree Hotel in Houston February 20-23, 2013). I look forward to working with our Committee Chairs in preparation for this year. Along that line...

Although spring has sprung, blue-winged teal are returning north, and portions of our state have enjoyed much needed rain over the last couple of months, we are looking forward to the 2012 edition of the Wildlife Conservation Camp which will be held this July 7-14 at Camp Tyler, Texas. Michelle Wood-Ramirez has been coordinating that effort this year, and will be looking for volunteers and experts – professionals and students alike. So, take advantage of that opportunity to serve the Chapter. Similarly, Activities Chair Greg Pleasant has begun arranging a wildlife track identification evaluation at the 2013 meeting – we anticipate that spaces will be limited, but this is an exciting opportunity for members to become involved in another workshop offered at our annual meeting. More details will follow. Finally, our Executive Director, Doug Slack, has been busy in Austin, and continues to represent the Chapter with utmost character and focus – please review his comments in the pages that follow. Finally, please take the time to review this newsletter, as this issue highlights the winners and successes of our membership during the Fort Worth meeting. We have a dynamic and highly energetic membership, as exemplified by the students and professionals that shared their research, expertise, and talents – their successes are our cumulative success as a Chapter. Join me in congratulating the winners.

I look forward to the next several months, as our Chapter moves forward into the summer, and I look forward to serving our membership. Until next time,

Warren Conway, President

TEXAS' FLORA AND FAUNA

fish mortality in 1986, estimated at 22 million, but is no less overwhelming. Species like Striped Mullet, Menhaden, Atlantic Bumper, and Gulf Whiting were found dead along with game fish such as Spotted Seatrout, Redfish, Tarpon, and Snook. Brevetoxins can affect birds and mammals that feed on the dead fish since the viscera and gills, where the toxin accumulates, are often eaten along with the rest of the fish. Even the sea foam may contain high levels of the toxin, making it advisable to keep your dog at home during a red tide event.



Karenia brevis is a fragile organism, and when it is pushed near shore and into the crashing waves, it tends to break down and its toxins become airborne as the sea spray is carried in by the wind. The toxic aerosol can cause watery, itchy eyes, a runny nose, headaches, and sometimes nausea. People with respiratory problems like asthma may even have difficulty breathing. These symptoms are temporary and usually subside quickly once you leave the beach, but they can be severe enough to drive tourists and fishermen away for the duration of a red tide event. For a coastal economy that depends on tourism and recreation, this can be quite damaging.

Though it is generally safe for humans to eat the fleshy parts of fish caught in waters affected by red tides, shellfish, such as oysters, are off-limits. Since they are filter-feeders, oysters can accumulate levels of brevetoxin that are harmful to humans. Neurotoxic shellfish poisoning can cause nausea, vomiting, and a variety of neurological symptoms such as dizziness and slurred speech. For this

reason, oyster growing areas are closely monitored by the Texas Department of State Health Services. The economic impact from a closure on commercial oyster harvesting can be quite substantial. At one point during this year's red tide outbreak, oyster harvesting was closed statewide due to high levels of brevetoxin, costing the industry millions and limiting my Saturday night dinner options.

More so than economic effects, the extent of ecological damage caused by a red tide event remains a mystery. It kills marine organisms and can kill birds and mammals that feed on them, but how does this affect local population levels? What of

the millions of birds that stopover or winter on the Texas coast, how many of them die or are forced to move out of traditional wintering grounds? How long does it take fish communities or marine invertebrate communities to recover? What are the adverse effects on turtles and dolphins? If red tides are natural, it is still unclear what role such a seemingly disastrous event might have in the marine ecosystem. It may be that red tide events are more frequent because of things like fertilizer runoff or the diversion of freshwater inflows to the bays and estuaries. On the other hand, it may just be something for coastal Texans to get used to, like mosquitoes, heat, and rattlers.

Article by Owen Fitzsimmons
Biologist - Coastal Bird Program
Coastal Bend Bays & Estuaries Program

IN MEMORIAM: DR. JIM TEER



Dr. James G. Teer (1926-2012), the first President and a Founding Member of the Texas Chapter of The Wildlife Society, had a career in wildlife that spanned over 60 years. He often credited his love of wildlife and the outdoors to his childhood roaming of the San Gabriel River in Central Texas. Dr. Teer served in the United States Navy during World War II in the Pacific Theater, and he began his academic training following the war at Texas A&M University where he attained his B.S. From there he went on to obtain a M.S. at Iowa State University, and completed his studies with a Ph.D. from the University of Wisconsin in 1963. His research interests were in the areas of plant-animal community ecology, vertebrate population dynamics, and the ecological basis of land-use planning and resource conservation and management.

Dr. Teer's depth of understanding of conservation issues stemmed not only from his academic studies, but also from the vast experiences he gained in a professional career which transitioned universities, agencies, and private organizations. Such experiences served him well both as a biologist and conservationist. Dr. Teer worked as a Research Biologist for both the Texas Game and Fish Commission and the U.S. Fish and Wildlife Service at the Patuxent Wildlife Research Center, and served as an assistant professor at both Mississippi State University and at Texas A&M University. He went on to become the Caesar Kleberg Chair of Wildlife Ecology and Program Leader for the Caesar Kleberg Program in Wildlife

Ecology at Texas A&M University, as well as serving as a Visiting Professor in Wildlife Ecology at the University of Pretoria in South Africa. His university career culminated as Professor and Head of the Department of Wildlife and Fisheries at Texas A&M University.

In 1978 Dr. Teer became the third director of the Rob and Bessie Welder Wildlife Foundation near Sinton, Texas, where he remained for 20 years. He brought to the Foundation a singular dedication to the field of wildlife management that focused on the Foundation's mission of research and education. Dr. Teer consulted for private landowners, industry, state and federal agencies in the U.S. and governments of countries in the tropical world. He was recognized and sought after globally as an authority in wildlife conservation. He either served on and chaired many boards including the North American Sustainable Use Specialist Group of The World Conservation Union (IUCN), the North American Wildlife Foundation, the National Audubon Society, the Texas Advisory Committee for the Environmental Defense Fund, the Environmental Research Steering Committee for Texas Utilities, the Nemours Plantation in South Carolina, and the Serengeti Research Institute in Kenya. His work extended to Africa, India, Russia, France and countries in Central and South America, and many of his graduate students accomplished research projects in countries around the world.



IN MEMORIUM: DR. JIM TEER

In addition to the courses he taught in wildlife conservation and management, his world experiences led him to teach courses in global conservation issues throughout his career. During his professional career he published over 130 scientific papers, 13 book chapters, 2 monographs, and a book of his personal and professional memoirs, *It's a Long Way from Llano: The Journey of a Wildlife Biologist*.

Dr. Teer won many awards, but most notably were the Aldo Leopold Memorial Award bestowed by The Wildlife Society, the Safari Club International Conservation Trophy, the Conservation Award from the Daughters of the American Revolution, and the Harvey Weil Professional Conservationist of the Year Award. He was inducted into Texas Parks and Wildlife Foundation's Hall of Fame in 2001.

Dr. Teer is survived by the love of his life Joan Marie (Powell) Teer, a daughter Jill Marie, as son James

Warren, grandchildren Lucas, Justin, Ann, and one of three brothers Donald. He was preceded in death by his parents, Thomas Lee Teer and Mary Ella Dohoney, and two brothers, Winston and Thomas.



Dr. Teer's presence and leadership will be missed by his many friends in the wildlife community, and particularly those Texas Chapter TWS members and colleagues with whom he worked through the years.

*Memorial article contributed by:
Drs. Selma Glasscock and Nova Silvy*

THOUGHTS FROM THE WILD

R. DOUGLAS SLACK EXECUTIVE DIRECTOR - TEXAS CHAPTER OF THE WILDLIFE SOCIETY

Once again the Texas Chapter outdid itself at the annual meeting. The hard work of the Program Committee (chaired by Amy Turner) and the Local Arrangements Committee (chaired by Jesse Oetgen) once again paid off with a remarkable record attendance of 572. Seeing students mingling with non-student professionals at a packed reception is indeed exciting. For me, the specter of numerous filled rooms hearing presentations on the science behind wildlife conservation is hard to beat. The program was highlighted by the extraordinarily relevant plenary session on the Public Trust Doctrine and its relevance to Texas. The presentations by Paul Krausman (current President of The Wildlife Society), John Organ (former President of The Wildlife Society) and Ruben Cantu (Past President of the Texas Chapter of TWS) wove a tapestry of relevance of the Public Trust Doctrine to ensuring that biodiversity and wildlife productivity of the land will be sustained for future generations of North Americans (and yes, that includes Texas!). As a special added benefit, we had several associated meetings at the same venue the two days prior to the official Chapter meeting. All in all, if you are serious about wildlife conservation in Texas, the Texas Chapter meeting each February is the place to be.

Prior to the annual meeting, we communicated with more than 60 state representatives about the importance of our Chapter's annual meeting program for maintaining Texas' wildlife. Even now, the Texas Legislature is conducting interim studies relevant to maintaining wildlife in Texas. For example, an interim study hearing on deer breeding regulations compliance is scheduled 24 April. The Texas Chapter will be represented.

Don't say that I never warned you! (see the "Thoughts from the Wild" for Fall 2011). I will make use of the members' professional expertise data base to seek aid on several conservation issues confronting us this year. We will be faced with concerns relative to the breeding

of white-tailed deer, breeding of mule deer, feral burro control, the impact of feral cats on wildlife, and gathering reliable information on the status of species considered for Endangered Species Act listing. These are issues that I know about, so far! Grab your hats and hang on.

A personal note: Jim Teer died on 19 March 2012 after a 64-year career in wildlife conservation and management. Jim Teer was a founding member of the Texas Chapter, and he served as President for its first two formative years. Jim's conservation recommendations and insights were made at all levels: community, state, national, and on the international stage. Although he spent several important years with Texas Parks and Wildlife Department, he was best known for mentoring students while serving as a Professor and Department Head at Texas A&M University and as Director of the Rob and Bessie Welder Wildlife Foundation. He garnered significant national and international wildlife and conservation awards for his leadership. More importantly, to me, I lost a mentor and a good friend. Jim was always a man that provided me with important career guidance and counsel. The conservation community lost a visionary who willingly worked with colleagues for the betterment of wildlife.



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CHAPTER BUSINESS

TEXAS CHAPTER OF THE WILDLIFE SOCIETY



WILDLIFE CONSERVATION CAMP

The Wildlife Conservation Camp has been opening doors for high school students since its start in 1993. Even if a camper does not decide to pursue a career in the wildlife or conservation related fields, students leave Camp having developed an appreciation for the outdoors and prepared to become conservation minded voters.

Now in its 18th year, the Wildlife Conservation Camp will be held July 8-14, 2012 at Camp Tyler near Tyler, Texas. Campers will spend their time exploring 300 acres of pine forest, prairies, farm land and shoreline along Lake Tyler. Accommodations include on-site cabins, a large dining facility, and several other buildings designed for outdoor classrooms will be available. Camp Tyler has been providing experiences in outdoor education for over 60 years! Campers will have the opportunity to observe and study an abundance of mammals, birds, reptiles, and insects inhabiting this unique ecosystem of East Texas. To learn more about Camp Tyler visit www.campt Tyler.org.

Campers especially enjoy the experience interacting with wildlife professionals and students from a variety of wildlife and conservation related fields. This hands on camp allows students to study wildlife and plant identification, wetland habitats, hunting as a management tool, species diversity, conservation ethics, wildlife capture and census techniques, wildlife tracking, predator-prey dynamics, ecology, fishing, hunter safety, shooting skills and much more.

We are asking Texas Chapter of The Wildlife Society members to assist by leading presentations during camp and/or making a monetary or prize donation. Food and lodging at camp will be provided for volunteers. Please contact Michelle Wood-Ramirez, 2012 Camp Director, at michelle@dwc-inc.com to see how you can become involved.

Students can apply by completing this application: http://site.tctws.org/users/wildlife/doc/2012_camper_application.pdf. For additional information please contact Michelle Wood-Ramirez, 2012 Camp Director, at michelle@dwc-inc.com. **Deadline extended to May 15!**

And please, LIKE Wildlife Conservation Camp on Facebook!

CHAPTER BUSINESS

HIGHLIGHTS FROM SOUTHWEST SECTION

Submitted by Carol Chambers, TWS Council Representative

Two weeks ago it was winter here in northern Arizona (with >2 feet of snow at our house); now it feels like spring. I recently returned from the midyear TWS Council meeting, this year held in Atlanta (definitely felt like spring there) and have some updates to share with you as well as updates from attending meetings in the SW Section.

At the SW Section level, we held our first, in a long time, Southwest Section Business Meeting in conjunction with the Texas TWS Chapter meeting. Look for minutes of that meeting on our web site (<http://joomla.wildlife.org/SW/>) soon. All officers were present as well as 8 other members at the section or national level including TWS President Paul Krausman. We discussed elections, updating our Section Bylaws, results of the SW Section audit (our current balance is just over \$10,000), and ways to generate more money for the SW Section. In addition, the SW Section Board (Selma Glasscock, Stu Tuttle, Misty Sumner, and Johnathan O'Dell) did a great job organizing and presenting a symposium on wildlife border issues that was very well attended (>100 people) and included a presentation by our current President Paul Krausman. Shannon Pederson from the national office held a certification workshop during the Texas Chapter meeting in February. Our plan is to alternate SW Section meetings among the states in future.

There is a lot going on at the national level as well. Executive Director/CEO Michael Hutchins is on medical leave (but feeling better) and TWS Council voted for Darryl Walter to assume the role of Acting Executive Director/CEO. At the Council meeting we discussed budget issues, condensing our 50 position statements to a smaller and more effective number, the Conservation Leaders Summit sponsored by TWS, and an affinity program for TWS. Membership in TWS and SW Section is up for the third year in a row (140 members in 2009, 158 members in 2010, 249 in 2011).

Our conferences are going strong. Plan to attend the upcoming 2012 Annual Conference in Portland Oregon. The deadline for contributed papers and posters is April

13. The conference website is now available at <http://wildlife.org>. This is our 75th anniversary of the founding of TWS, annual conferences are a great way to network, and we expect this conference to be one of our best attended ever with special events planned to celebrate the anniversary. Our international conference, the IV International Wildlife Management Congress (IWMC), is coming up in July and will be held in Durban, South Africa. Registration for the IWMC is currently open and can be accessed at <http://iwmc2012.org/content/registration>. Finally, the TWS website is going through a major redesign, look for the new site to go live in April. It looks great and has a cleaner, more intuitive structure on the home page. Here are some things for YOU to do: Take action: The 3-page Wildlife Disease Position Statement is open for your review and comments through June 1 <http://joomla.wildlife.org/documents/positionstatements/wildlife.disease.draft.pdf>.

Check out

- The newly published seventh edition of The Wildlife Techniques Manual edited by SW Section member Nova J. Silvy (Texas Chapter TWS; Regents Professor in the Department of Wildlife and Fisheries Sciences at Texas A& M University). TWS members get a 25% discount.
- The Blue Ribbon Panel on the Future of the Wildlife Profession and Its Implications for How We Train Wildlife Professionals is now available and an electronic version of the Blue Ribbon Panel Report will be sent to National Association of Fish and Wildlife University Programs members.
- Lead and Wildlife Fact Sheet – this 2 pager reports on threats of, effects of exposure, and alternatives to use of lead ammunition and fishing tackle (<http://joomla.wildlife.org/documents/policy/Lead.Fact.Sheet.pdf>).

CHAPTER BUSINESS

Finally, I wanted you to know about the passing of 2 important long-term members of our Section, Dr. Warren Ballard and Dr. James Teer, both from Texas.

Dr. Warren B. Ballard, Jr. (April 28, 1947 - January 12, 2012) Dr. Ballard, widely-published author, editor (including of the TWS Wildlife Society Bulletin), and nationally-recognized professor in Texas Tech University's Department of Natural Resources Management, passed away peacefully at his Lubbock home after a brave fight with pancreatic cancer. Dr. Ballard's family requested donations to a TTU scholarship in his memory.

Dr. James G. Teer (March 13, 1926 - March 19, 2012) Dr. Teer, Distinguished Professor Emeritus of Wildlife and Fisheries Sciences at Texas A&M University and Third Director of the Welder Foundation, passed away peacefully with his family at his home near College Station. The family requested that contributions in his name be sent to the Texas Chapter TWS.

As always if you have questions or comments for me, please contact me – email is best at this time (carol.chambers@nau.edu).



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Affinity Programs - What's your opinion?

As The Wildlife Society (TWS) has grown in recent years so has the size and breadth of its programs and services. Currently, TWS is facing challenges in generating the funding it needs to maintain, expand, or explore current programs and new opportunities. We need additional funding to maintain the Society's programs, services, and opportunities. A possible source is allowing companies to use TWS's logo accompanied by a statement indicating that the company is a proud sponsor of TWS (or similar wording) on product packaging or websites in exchange for a financial contribution. In such an arrangement, TWS would make it clear that no endorsement of a product was being made, only that the company has made a financial contribution to TWS. To pursue this option, specific guidelines for the use of TWS's logo would be developed. As this is a significant new approach for TWS relative to fund-raising, TWS Council is actively seeking input from members, via Section Representatives, to understand the memberships' views on this possible approach to funding. Your input is valued and appreciated. Please contact your Section Representative, Carol Chambers, Southwest Section, for more details and/or further discussion (Carol.Chambers@nau.edu, use subject line 'affinity programs'; phone 928-523-0014).

CHAPTER BUSINESS

THE WILDLIFE SOCIETY MEMORABILIA



As part of TWS' 75th anniversary celebration, The Wildlife Professional is planning an article called "Attics and Basements: Historic Treasures from TWS Members." We're looking for quirky, fun, interesting memorabilia that TWS members have collected through the years, related to their work.

For example, does anyone have a paper marked up by Aldo Leopold? An early GPS unit, radio collar, or other piece of classic wildlife equipment? A rare animal skin confiscated in a trafficking bust? Historic documents, tools, signed first-edition books, photographs, recordings, pins, skulls, garments, etc.?

We'd like a photograph of the item and a brief explanation of its significance and when and how it was acquired. If you've got a submission, please email Lisa Moore (LMoore@wildlife.org) and please put "Memorabilia" in the subject line.

STUDENT CHAPTER SPOTLIGHT

TEXAS A&M UNIVERSITY

For the Texas A&M University Student Chapter of The Wildlife Society, no job is too big -- or too small!

The “big” highlights of the chapter’s activities for the past year include the annual Wild Game Dinner and the Semester Conclave Trip. The annual Wild Game Dinner is the chapter’s primary fundraiser. Society members cook up donations of wild game meat, both native and exotic, for attendees to sample. The dinner also features the Faculty Quiz Bowl, which was designed by the student Quiz Bowl Team as a way for faculty and graduate students to join in the fun with a mock wildlife quiz bowl. The Semester Conclave Trip is a new activity for the TAMU Student Chapter. Last semester the quiz bowl team couldn’t afford to go to the National Conference in Hawaii; so they arranged a field trip to study West Texas ecosystems instead! They learned about current research at Sul Ross State University in Alpine, visited Elephant Mountain Wildlife Management Area, investigated Balmorhea State Park, and hiked in the Davis Mountains. This semester, the team will travel to South Texas.



Members of the Chapter pose with their stream clean haul

The TAMU Chapter of The Wildlife Society also values all the “little” events that are a part of wildlife conservation and management. Every fall the chapter participates in the TAMU Stream Clean and every spring the chapter sends 1-2 teams to participate in the campus-wide Big Event service project. You can also find the chapter’s education booth at nearly every science-related public education event. Our chapter’s educational committee teams with the Texas Cooperative Wildlife Collection to teach the public about wildlife using skins and tracks of local species. The student chapter also provides our members with valuable field experience through volunteer opportunities and workshops.



A student practices setting a Sherman live trap.



Students identify and collect plants in West Texas..

CONFERENCE AWARDS

HIGHLIGHTS FROM THE TCTWS 48TH ANNUAL MEETING IN FORT WORTH, TX



PUBLICATION AWARDS

SCIENTIFIC ARTICLE:

Stephen DeMaso, William E. Grant, Fidel Hernandez, Leonard Brennan, Nova Silvy, X. Ben Wu and Fred Bryant. 2011. A population model to simulate northern bobwhite population dynamics in southern Texas. *Journal of Wildlife Management* 75:319-332.

TECHNICAL PUBLICATION:

Kenneth A. Cearley and Chuck Kowaleski. 2011. After the conservation reserve program: land management with wildlife in mind. Texas Agrilife Extension Service Publication L-5508, College Station, Texas.

BOOK:

David Hewitt, editor. 2011. *Biology and management of white-tailed deer*. CRC Press, Boca Raton, FL.

CONFERENCE AWARDS

EDUCATOR OF THE YEAR AWARD



Chris Comer, SFASU

OUTSTANDING ACHIEVEMENT AWARD



John Baccus, Texas Tech

LAND STEWARDSHIP AWARD



Pipkin Ranch

HONORARY LIFE MEMBER AWARD



Charles DeYoung (Randy DeYoung pictured)

IN MEMORIAM: DR. WARREN BALLARD



Family of Dr. Warren Ballard

OUTSTANDING TECHNICAL PUBLICATION



Chuck Kowaleski, TPWD

OUTSTANDING SCIENTIFIC ARTICLE



Fidel Hernandez, Leonard Brennan, Nova Silvy & Fred Bryant

OUTSTANDING BOOK



David Hewitt, TAMUK

CONFERENCE AWARDS

CARL SHOEMAKER MEMORIAL SCHOLARSHIP



Sarah Mays, Tarleton

CHARLY MCTEE MEMORIAL SCHOLARSHIP



Taylor Garrison, TAMUK

COLIN CARUTHERS MEMORIAL & DALLAS ECOL. FOUND.



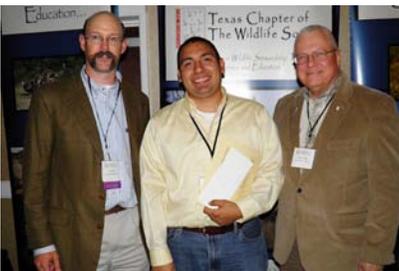
Will Newman, Tarleton

DAN BOONE SCHOLARSHIP



Eric Grahmann, TAMUK

NWTF SCHOLARSHIP



Adam Duarte, Texas State

GARY WAGGERMAN MEMORIAL SCHOLARSHIP



Melanie Colon, TAMU

SCHOLARSHIPS

CARL SHOEMAKER
MEMORIAL SCHOLARSHIP:
Sarah Mays, Tarleton

CHARLY MCTEE
MEMORIAL SCHOLARSHIP:
Taylor Garrison, TAMUK

COLIN CARUTHERS
MEMORIAL &
DALLAS ECOLOGICAL
FOUNDATION SCHOLARSHIP:
Will Newman, Tarleton

DAN BOONE SCHOLARSHIP:
Eric Grahmann, TAMUK

SAM BEASOM SCHOLARSHIP:
Jena Moon, SFASU

GARY WAGGERMAN
MEMORIAL SCHOLARSHIP:
Melanie Colon, TAMU

TX CHAPTER OF THE
NATIONAL WILD TURKEY
FEDERATION SCHOLARSHIP:
Adam Duarte, Texas State

CONFERENCE AWARDS

STUDENT AWARDS

STUDENT CHAPTER OF THE YEAR:

1. Texas A&M University-Kingsville

QUIZ BOWL:

1. Tarleton State University

OUTSTANDING GRADUATE POSTER:

1. Eric Grahmann, TAMUK

OUTSTANDING UNDERGRADUATE POSTER:

1. Jacob White, Tarleton

CLARANCE COTTAM STUDENT PRESENTATION AWARD:

1. John Roberts, Texas Tech
1. Doni Schmalm, Texas Tech
2. Laura Stewart, TAMU

PLANT ID CONTESTS

COLLEGE STUDENT:

1. Kenna Stapp, TAMU
2. Kasey Davis, TAMU
3. Laura Strapper, TAMU

COLLEGE TEAM:

1. Texas A&M University
2. Texas A&M-Kingsville
3. Tarleton State University

PROFESSIONAL STUDENT

1. Kenna Stapp, TAMU
2. Andrew Bennett, SFASU
3. Steven Goertz, TAMUK

PROFESSIONAL VETERAN

1. Dean Marquardt, TPWD
2. Eric Grahmann, TAMUK
3. Dr. Robert Knight, TAMU

STUDENT CHAPTER OF THE YEAR



Texas A&M University-Kingsville

QUIZ BOWL TEAM



Tarleton State University

CONSERVATION CAMP TOP CAMPER



Sloane Taylor

OUTSTANDING GRADUATE POSTER



Eric Grahmann, TAMUK

PLANT ID COLLEGE TEAM



Texas A&M University

CONFERENCE AWARDS

1ST PLACE COTTAM



John Roberts, Texas Tech

2ND PLACE COTTAM



Doni Schmalz, Texas Tech

1ST PLACE ART



Eric Grahmann, TAMUK

1ST PLACE WILDLIFE (TIE)



Simon Chavez, SFASU

1ST PLACE HUMOR



Clint Faas, MT7 Ranch

1ST PLACE REMOTE CAMERA



Arturo Caso, TAMUK

ART CONTEST

ART:

1. Eric Grahmann, TAMUK
2. Jacque Festrato, Texas State
3. Jacque Festrato, Texas State

PHOTO CONTESTS

CAPTIVE/CONSERVATION:

1. Blake Martin, TAMUK
2. Ryan Scauzillo
3. Melinda Schwartz, TAMUK

HUMOR:

1. Clint Faas, MT7 Ranch
2. Ty Bartoskewitz, MT7
3. Melinda Schwartz, TAMUK

PLANTS & SCENERY:

1. Clint Faas, MT7 Ranch
2. Eric Grahmann, TAMUK
3. Chris Hamilton

WILDLIFE:

1. Eric Grahmann, TAMUK (tie)
1. Simon Chavez (tie)
3. Jacque Festrato & James Emerson

WORK RELATED:

1. Poncho Ortega, Jr., East Ranch
2. William Colson, TAMUK
3. Melinda Schwartz, TAMUK

REMOTE CAMERA:

1. Arturo Caso, TAMUK
2. Dan Walker, TPWD
3. Ty Bartoskewitz, MT7 Ranch

BEST OF SHOW:

1. Eric Grahmann, TAMUK
2. Clint Faas, MT7 Ranch
3. Melinda Schwartz, TAMUK

UPCOMING MEETINGS & ANNOUNCEMENTS



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