



New Texas Aviation Advisory Committee Members

On August 31, 1995, the Texas Transportation Commission appointed two new members to the Texas Aviation Advisory Committee. Blair Bisbey and Bill Knowles will replace Derald Lary and Herschel Spencer. TxDOT greatly appreciates the contribution made by Mr. Lary and Mr. Spencer in serving as members on this committee.

Mr. Bisbey holds a private pilot's license with instrument rating, and flies for business and pleasure. He received his B.A. degree, Phi Beta Kappa, in 1975, and his Doctorate of Law degree from the University of Texas School of Law in 1978. He was admitted to the Texas State Bar in 1979, and the Louisiana State Bar in 1980. For the past 16 years he has practiced general civil trial law with the firm of Seale, Stover, Coffield & Bisbey in Jasper, Texas. He is a member of the Aircraft Owners & Pilots Association, Lawyer-Pilots Bar Association, and has served as Chairman of the Jasper County Airport Advisory Committee. He is a past President of both the Jasper Lions Club and Jasper Lions, Inc. An Eagle Scout and former scoutmaster, Bisbey is still involved with the Boy Scouts of America. Mr. Bisbey was appointed to the Advisory Committee on August 31, 1995, and his term will expire on August 31, 1998.

Mr. Knowles, a licensed pilot since 1960, and A&P mechanic, is Chairman of the First National Bank of Palestine. He was owner/operator of Palestine Flying Service, Inc. (FBO at Palestine Airport), for 15 years. Mr. Knowles was a U.S. Army Captain during the Viet Nam conflict and was awarded the Army Commendation and Bronze Star. He received a degree in Business and Economics in 1966, from the University of Houston and graduated from the Colorado School of Banking in 1976. He also attended the London School of Economics. He serves with the Palestine Chamber of Commerce and the

Palestine Industrial Foundation. He serves as a counselor with the Texas A&M University Research Foundation. Mr. Knowles was appointed to the Advisory Committee on August 31, 1995, and his term will expire on August 31, 1998. Mr. Knowles was a member of the Texas Aviation Board from 1989-1991, prior to the Texas Department of Aviation becoming a division of TxDOT.

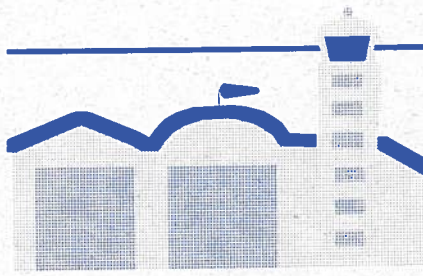
The Aviation Advisory Committee assists in formulating policy for the future development of the Texas aviation system, and provides a forum for the exchange of information between the Texas Transportation Commission, the Texas Department of Transportation and users of Texas' aviation system.

Members are:

George F. Mitchell, Jr., Chairman - Beaumont
Judge Bill McCoy, Vice Chairman - Odessa
Jose L. Flores, Secretary - Laredo
Blair Bisbey - Jasper
Bill Knowles - Palestine
Loretta Scott - Grand Prairie

State Grant Funds Increased

The Texas Legislature increased state grant funding for airports from 8.5M for the biennium of FY 94-95, to a total of 21M for the biennium of FY 96-97.



Dave's Hangar

Aviation Education

For those of us who have spent our entire careers in aviation, there exists a responsibility to ensure that adequate opportunities are afforded to encourage young people to begin careers in air transportation. Organizations like the Experimental Aircraft Association through their "Young Eagles" program and the Aircraft Owners and Pilots Association through their "Apple Program" (America's Pilots Participating in Local Education), are making significant contributions to this effort.

We, at TxDOT Aviation Division, likewise feel an obligation to assist these young people in their aviation career development. As a result, we are increasing our commitment to aviation education through development of new programs to support this goal. As these programs evolve, we will continue to provide information about them. Any ideas you may have for new aviation education programs are welcome.

Aviation History

The State of Texas is a virtual treasure trove of aviation history. In upcoming articles we plan to feature some of the many museums and other aviation treasures throughout the state.

- David Fulton, Aviation Division Director

APPLE Program

AOPA (Aircraft Owners & Pilots Association) takes pride in its efforts to enhance the aviation education of America's young people. The APPLE Program (America's Pilots Participating in Local Education) is the name of AOPA's aviation education program. They believe aviation is a valuable teaching tool which can spark student's interest in math, science, and almost any other subject. AOPA provides its members guidelines about whom to contact in the local school districts, tips on topics to discuss, and activities for the students. AOPA can provide teachers with "A Teacher's Guide to Aviation" and a classroom kit. The APPLE Classroom Kit includes materials around which a classroom presentation may be developed. Diagrams, definitions, and explanations of airplanes and flight are included, as is a list of suggested activities. The pages may be copied for distribution to students. Resources are available at no cost to educators. Call Janette M. Prince at 1-800-USA-AOPA.

Young Eagles

In 1992, the "Young Eagles" program was launched nationwide by the Experimental Aircraft Association (EAA). Its ambitious goal is to combat a declining interest in general aviation by providing introductory flights to one million young people by 2003, the 100th anniversary of flight. These flights are provided by local EAA members to a generation of people who might not otherwise have such an opportunity. In addition to exposing them to the joy of flying and possible careers in the aviation industry, the program seeks to generate goodwill about airports and aviation among parents, educators, and community leaders. To date over 117,000 Young Eagles have been flown by 10,000 pilots nationwide. According to Bill Gunn, Manager of Aviation Education Programs for the Aviation Division, Texas volunteer pilots have logged approximately 11,700 rides since 1992. For additional information, contact the TxDOT Aviation Division 512/416-4515 or EAA Young Eagles Executive Director, Steve Buss at 414/426-4831.

Weekend FIRCs

TxDOT/ASF Flight Instructor Recertification Clinics have been adjusted to a 16-hour Saturday-Sunday schedule. Clinics begin at 8:00 a.m. Saturday mornings and end by 4:30 p.m. on Sundays. The clinic schedule is now set on an annual cycle to always be held in the city listed by the corresponding month. For example, in November the clinic will always be held in Houston. You may register to attend one of these clinics through AOPA Air Safety Foundation, 1-800-638-3101.

Flight Instructor Recertification Clinic

November 4-5, 1995 - Houston
Hobby Airport Hilton, 8181 Airport Blvd.

Also:

FREE 6-hour instrument refresher course

Nov. 4th, 10 a.m. - 5 p.m.
Hobby Airport Hilton, 8181 Airport Blvd.

Flight Instructor Recertification Clinic

December 2-3, 1995 - Austin
Wyndham Southpark Hotel
4140 Governor's Row

Flight Instructor Recertification Clinic

January 20-21, 1996 - San Antonio
Airport Hilton, Loop 410, North

"How To" Guide for GPS and Loran Navigation

The AOPA Air Safety Foundation has just released GPS/Loran - A Guide to Modern Navigation. The new guide provides concise and easy-to-understand descriptions of how GPS and Loran work. The guide briefly explains the ins-and-outs of certifying GPS and Loran units for IFR. It also details why existing hand-held units cannot be certified and should not be used for IFR navigation. The guide provides an overview on how GPS approaches are flown and the distinction between "overlay" and "stand-alone" approaches. It also discusses why GPS-generated altitude will probably differ from altimeter indications. For a free copy, write: GPS/Loran - A Guide to Modern Navigation, AOPA Air Safety Foundation, 421 Aviation Way, Frederick MD 21701. Enclose a large (6"x9") self-addressed envelope with 55 cents postage affixed.

Aviation Videos

Any organization or Texas resident may request the free loan of a video by calling 1-800-68-PILOT, or by writing to: TxDOT, Aviation Resource Library, 125 E. 11th Street, Austin, TX 78701-2483. Walk-in library hours are 8:00 a.m. - 5:00 p.m., Monday through Friday. The library is now located at 150 E. Riverside, 1st Floor, South Tower, Austin, TX 78704.

As many as three videos may be checked out at a time, and may be kept for up to two weeks. The only cost required of a video user is the postage to return videos that were mailed.

Free Publications

The Aviation Division has several publications that are available to the public at no cost.

Youth In Aviation
Directory of College Aviation Degree Program
Calendar of Texas Aviation Events
Aviation Videos Catalog
Aviation & Space Education A Teacher's Resource Guide
TxDOT, Division of Aviation and Civil Aviation In Texas
Administration of TxDOT Facilities Development Program
Regulations and Statutes

Call 1-800-68-PILOT to order any of these publications or to have a video mailed to you.

WAAS Contract Awarded

The FAA recently awarded a \$475 million contract for the development of the Wide Area Augmentation System (WAAS) that will utilize the revolutionary Global Positioning System (GPS) to achieve a quantum leap in aviation safety, navigation, and fuel efficiency. The contract to develop and field a network of ground stations across the U.S. was awarded to a consortium led by Wilcox Electric, which will team up with Hughes Aircraft and TRW.

"This is the beginning of a new era. In the near future, satellites in space will guide how planes take off, fly, and land—replacing ground-based navigation systems, some of which have been around since the 1940's," said DOT Secretary Federico Pena. "With the project we will not only become the world leader, but we will also help create what experts project to be a \$30 billion GPS industry in a decade, generating thousands of new American jobs."

FAA Administrator David Hinson said that the transfer of the current ground-based navigation system to a space-based one is in keeping with the FAA's mission to install advanced technology to guide the nation's airspace system into the 21st Century. When fully implemented as an integrated, global system, the possibilities become virtually unlimited," he said.

The contract calls for the development and fielding of a network of ground stations across the U.S. These stations will receive, analyze, and refine signals from the GPS satellites and transmit the information via communication satellites to all aircraft flying within U.S. airspace. The WAAS ground stations will be located at approximately 35 air traffic control facilities across the country.

Under the WAAS, aircraft will be able to fly more direct routes to their destination, saving time, fuel, and money; precision approaches will be possible into nearly any airport in the U.S. that is properly configured; older ground-based navigation systems, which are expensive to maintain and operate, can be gradually decommissioned; system capacity will be significantly improved by safely allowing more aircraft to occupy a given airspace without increased risk; system congestion and passenger delays will be reduced as a result of more efficient airspace management and scheduling; and navigational equipment on board aircraft can be reduced and simplified.

"This is the kind of revolution in navigation that we saw in computers in the 1970's" said Pena. "An augmented GPS system will benefit land and maritime transportation, atmospheric research, weather forecasting, surveying—in fact, almost every phase of American life."—*Southwest Intercom*

Project News

Construction projects are just getting underway at:

Brenham Municipal - overlay & mark taxiway and apron, replace rotating beacon

Crane County - rehabilitation of runway, apron & taxiway

Gonzales Municipal - repair runway

Mount Pleasant Municipal - construction could start as early as end of October for rehabilitation and marking of the runway

Newton Municipal - extension & rehabilitation of runway, construct turnaround, extend low intensity runway lighting

Pineland Municipal - construct turnaround, rehabilitation of runway, install medium intensity runway lighting

San Saba Municipal - rehabilitation of runway, reconstruct aprons, install medium intensity runway lights

Stephens County - extension, overlay & marking of runway; overlay of taxiway; reconstruction of apron

Construction has recently been completed at:

Brenham Phase I

Dan E. Richards Municipal

Kountze/Silsbee-Hawthorne Field

Mineral Wells Municipal

Stanton Municipal

Biennial Program Approved

The Biennial Program includes the projects programmed for the two most immediate years of the Capital Improvement Program. The 1996-2000 CIP includes 127.0 million of nonreliever general aviation airport improvement projects. Over the five-year period, this represents projected funding of about 56.4 million federal, 58.9 million state, and 11.7 million in local contributions. Projects included in the Biennial Program are those that the Commission has determined should be funded for the upcoming fiscal year and the fiscal year following that year.

Once a project is approved for the second year of the Biennial Program, work begins on preparing the project for implementation in the following year. Preliminary work may include preparation of environmental assessments, plans and specifications, and land acquisition. All other projects listed in the CIP are subject to change as needs, priorities, and funding availability change. If you would like a copy of the CIP, contact the Aviation Division, 1-800-68-PILOT.

Airport Projects Approved

The Texas Transportation Commission has authorized project funding for the following airports. Requests for qualifications for engineering services and requests for proposals for planning projects have been issued for most of these projects.

Alice International

Aransas County

Avenger Field

Bridgeport Municipal

Brooks County

C. David Campbell Field

Castroville Municipal

Charles R. Johnson

Cherokee County

Cisco Municipal

Colorado City

Comanche City/County

Cox Field

Cuero Municipal

Curtis Field

Edinburg International

Fayette Regional Air Center

Floydada Municipal

Gonzales Municipal

Granbury Municipal

Harrison County

Hearne Municipal

Huntsville Municipal

Jasper County-Bell Field

Jim Hogg County

Kerrville Municipal

Kimble County

Livingston Municipal

Llano Municipal

Moore County

Munday Municipal

Nueces County

Ozona Municipal

Palestine Municipal

Panola County-Sharpe Field

Pleasanton Municipal

Possum Kingdom

San Patricio County

Sherman Municipal

Smithville Municipal

Starr County

Sulphur Springs Municipal

T.P. McCampbell

Taylor Municipal

Terrell County

Wills Point Municipal

Yoakum County

Pavement Maintenance Grant Assurance Required by FAA

Airport sponsors who participate in federally-funded projects for pavement replacement or reconstruction must now commit to a grant assurance which stipulates that an effective pavement maintenance/management program will remain in effect throughout the "useful life" of the constructed pavement.

Along with the release of the 1995 Airport Improvement Program (AIP) funds, Congress mandated that facilities receiving federal monies for replacement or reconstruction of paved surfaces create a pavement maintenance/management program.

TxDOT will work with sponsors to comply with the letter and spirit of the legislation by providing assistance in creating a pavement maintenance/management program plan that is appropriate for each airport.

During the past three years detailed pavement inventories have been completed for virtually all general aviation airports throughout the state. That data will serve as the basis for creating a plan for each facility involved. Annual inspections will be conducted by TxDOT personnel.

Pavement programs will have four basic components:

A pavement inventory which shows the dimensions, locations and maintenance history of all paved surfaces;

A prescribed inspection schedule which will involve detailed annual assessments, and monthly "drive-by" observations;

Record keeping which documents inspection dates, findings, locations of distress and remedial actions scheduled and performed, and;

A method of data retrieval which permits a comprehensive presentation to the FAA, if requested.

Ultimately, we hope to include all airports with which we are involved in a similar program, whether or not they are recipients of a federal grant. A statewide pavement maintenance/management program creates a win-win situation. Airports will have a structured method of addressing maintenance requirements in a timely fashion, thereby minimizing repair costs. And repairing and rehabilitating pavements, instead of having to reconstruct them, will allow us to maximize state and federal dollars for system improvements.

Some Events Around Texas

Nov 11 —Fly Day - Galveston
Nov 11—Texas Air Museum/Fly-In - Rio Hondo
Nov 11—EAA Chapter 59 Fly-In Lunch - Waco
Nov 18-19—Gulf Coast Fly-In & Expo - League City
Dec 10-13—Emergency Response Workshop - San Antonio

FAA's New Aviation Education Resource Center!

With an official dedication ceremony September 26, 1995, the **Vintage Flying Museum (VFM)** became responsible for the newest FAA Aviation Education Resource Center.

For over a decade, Doc & Chuckie Hospers have led a group of like-minded persons dedicated to preserving America's Flying Heritage in word, deed and aircraft. In 1990, they founded a non-profit museum to restore vintage aircraft as "flying museums" and preserve the exploits of those who "Keep 'em Flying!" With sheer determination, long hours and a tight rein on modest resources, the fledgling museum just outside Meacham Field gained national prominence.

Listed by the Texas Historical Commission and named by the Defense Department as a Commemorative Community Organization, the Vintage Flying Museum takes an active role in the ACE Academy... FAA's program to turn-on today's youth to tomorrow's aviation careers.

Today, the Vintage Flying Museum serves as a forum for sharing technical, historical and educational information world-wide. VFM's initiative to include youth, senior citizens & veterans into its mainstream activity brings a wider sense of historical perspective. After first breathing new life into an old B-17, the intrepid all-volunteer organization has blossomed into a multi-faceted Community Aviation Resource.

Located within and operated by the Vintage Flying Museum at Meacham Airport in Fort Worth, the Aviation Education Resource Center functions as an information distribution center for Federal Aviation Administration (FAA) aviation education materials and resources. The Resource Center maintains & provides quantities of FAA resource materials. Center personnel answer general information requests, conduct workshops, and make aviation-related presentations. They are used by the media, the public, and the educational community, and there is no cost associated with the use of the center.

Rotating Beacon (Airport Highlights)



Winston Field Has A New Look! A project which organizers say will work in concert with economic development efforts in Scurry County is near completion.

The airport terminal building at Winston Field, which has seen only limited use since the mid-1970's, has been renovated and now serves as the greeting point for pilots who fly in.

"About 50 percent of the prospects we get come in by air. This goes hand in hand with the new industrial park. It's not an isolated project," said Doug Hutchinson, Executive Director of the Development Corporation of Snyder. The Development Corporation of Snyder anticipates a cost of \$1.5 million for the development of the industrial park infrastructure.

"The runway is good and takes jet traffic with no problem. We've had several pilots come in on jets and compliment the condition of the runways," he said.

An effort to bring Winston Field into harmony with Snyder's economic development began more than a year ago. New rules and regulations have been instituted, and a manager has been hired. Work is expected in the near future on the large hangar, and the airport contains a 64-acre tract of land suitable for development," Hutchinson said.

Renovation of the terminal building — built in 1951— was a joint effort of the Board of County Develop-

ment (BCD) and Scurry County and got underway in February. The county sheriff's office inmate work program provided labor under the direction of Deputy Bobby Goodwin. Inmate help from the Price Daniel Unit was also utilized. The BCD provided most of the funding. Over \$36,000 has been spent on the project to date.

Some local businesses and the pilot's association have donated items such as window blinds and furniture recovering.

Hutchinson said cost has averaged \$9.15 a square foot. A new terminal would have cost \$75 a square foot, he said.

The terminal building was renovated with efficiency in mind, said Commissioner C.D. Gray, Jr. A new roof was added and insulation was put in throughout. The new air conditioner and heater are energy efficient. Ceiling fans and storm windows help keep energy costs down also.

New wiring, plumbing, floor coverings and a complete paint job enhance the building.

The building features a lobby, several rooms for offices, a group meeting area and a kitchen. Some items are still needed, such as appliances for the kitchen and a large table and chairs for the meeting room. Project organizers are looking for donations to add those items. Organizers are also looking for aviation-related artwork to display in the building.

Senator Gramm Applauds General Aviation's Contribution

"I am very aware of the significant economic development responsibility shouldered by the rural airports of Texas. Aviation is to our Texas towns and cities in the 1990's as was the railroad to the early American communities of the 1860's; it has opened up the heartland of America to economic development.

Air transportation capabilities are a major consideration to most successful industries in search of a site to relocate or expand their operation. Communities lacking adequate aviation facilities will be passed over by entrepreneurs looking to invest capital in ways which jobs would be created."

- Phil Gramm
United States Senator

AIRMAIL

Sherman Municipal Airport is now under new management. The City of Sherman has entered into a 10-year contract with South Central Flying Service, Inc. Services are available during daylight hours and on call. There is a mechanic on the field to perform all of the needed aircraft repairs, inspections, etc. A courtesy car is available to pilots.

The Sherman City Council has also approved a Letter of Intent and passed a Resolution to go ahead with approximately \$980,000 from TxDOT in airport improvements during the fiscal 1996 year. Major portions of the funds will be going to much needed repairs to the 4,000' runway, taxiways, aprons, a new pilot controlled runway lighting system, and beacon light.

- Ross Richardson, Chairman
Sherman Municipal Airport Board

"Ultimate Flights" Schedule On ESPN2 (1 p.m. Eastern Time)

Sunday	November 19
Monday	November 27
Sunday	December 17
Monday	December 25

Among the highlights of each EAA program are "What's New In Aviation", "Women In Aviation", Air Show Highlights, John and Martha King On Learning To Fly". The schedule is subject to change without notice.

Del Rio Ends 7 Year Absence Of Commercial Air Service

Del Rio has a new airline service! Lone Star Airlines now offers two round-trip flights each weekday, and one daily round-trip flight on weekends. The route will be serviced by a new, luxurious 30-seat Dornier 328 built by Daimler-Benz. The Dornier 328 is the most advanced aircraft in its category. It combines state-of-the-art technology with jet speed and unmatched comfort. In addition to passenger service, Lone Star also offers cargo and small package shipping services.

Although Lone Star's hub is at D/FW International, Lone Star enjoys interline agreements with most major airlines and offers competitive joint fares and convenient ticketing to destinations throughout the world. "With our service, we can connect Del Rio, Acuna, Eagle Pass, and Piedras Negras to Dallas/Fort Worth and beyond," John L. Prendergast, President at Lone Star Airlines, said.

According to Prendergast, the airline hopes to be "a good corporate citizen to the community." He predicts success for Lone Star as the community begins to realize what an asset air service is to the area.

In addition to its international routes, Lone Star offers regional service to cities throughout Texas, Arkansas, Oklahoma, and Missouri. The airline has established its niche by offering convenient, reliable service from D/FW to smaller markets that previously lacked air service.

For flight information and reservations, call 1-800-877-3932, or your local travel agency.

Obstructions Removed In Time To Save Lives

A pilot and his passengers suffered only minor cuts and bruises after his single engine Beechcraft developed problems with oil pressure causing the engine to "lock up" during take-off from Lago Vista's Rusty Allen Airport. After veering off the runway, the plane skidded about 165 feet, passing directly over the primary surface area where two trees had recently been removed from the front of one of the airport's hangars. The pilot landed the plane at the end of Runway 15 after clearing the runway end protection zone, where additional trees and obstacles had recently been removed.

An Aviation Division inspector reported his recommendations in January 1995, to the mayor and members of the airport association after he conducted a safety inspection at the Rusty Allen Airport recently acquired by the city of Lago Vista. The inspector advised that he had "observed certain conditions that could impact safety on the airport". His report noted that the Approach Surface of the Runway Protection Zone was obstructed by trees, and that all obstructions to the Approach Surface should be removed to provide an unobstructed 20:1 approach. Also included in his report was that the Primary Surface was obstructed by brush located on both sides of the runway. In addition to the brush, there were several large trees on the southwest side of the runway that were in the Primary Surface, and a 5' bank located in front of some of the hangars obstructed the Primary Surface. His report recommended all obstructions except FAA-approved frangible equipment be removed from the Primary Surface.

A recent newsletter from the airport's Board of Directors expressed relief for their decision to follow the inspector's recommendations to remove these obstructions. "It would have been a different story if we had not cleared our airport's runway protection zones. This accident demonstrates the requirements of TxDOT which we must monitor and comply with."

TxDOT's Aviation Division recommends compliance with FAA's regulations to maintain public safety at airports. It is a violation of Federal Aviation Regulation Part 77, Obstructions to Air Navigation, to have trees or other obstacles in the Primary Surface Area (which, in this case, is defined as 125 feet from each side of the runway centerline.)

Don't Forget We Have Moved!

Mailing address: 125 E. 11th Street, Austin, TX 78701-2483; Office Location: 150 E. Riverside Drive, South Tower, Austin, TX 78704. Office Number 512/416-4500. Fax Number 512/416-4510. Direct telephone numbers for David Fulton and Bob Woods—512/416-4501, Bill Fuller—512/416-4530, Linda Howard—512/416-4540, and Karon Wiedemann—512/416-4520.

United Beechcraft, Inc. Is Now Raytheon Aircraft Services, Inc.

Effective September 26, 1995, United Beechcraft, Inc. changed its name to Raytheon Aircraft Services, Inc. The corporation has integrated the Beech and Hawker products into a single company, Raytheon Aircraft Company.

The recent reconstruction of their San Antonio and Van Nuys FBO facilities, the certification of their Tampa and Van Nuys FBO facilities as Hawker Service Centers, the announcement of a new Northeast "High Technology Jet Center", and the integration of the Hawker Little Rock Factory Service Center were all preludes to this new corporate identification. Accounts with United Beechcraft will remain intact, only their name will change.

**Texas Department of Transportation
Aviation Division
P. O. Box 12607
Austin, Texas 78711-2607**

Submit articles for WINGTIPS

Write to TxDOT - Aviation Division,
P. O. Box 12607, Austin, TX 78711-2607
Attention: Cheryl Williams, or fax to 512-479-0294

Aviation Art Contest '96

"Airfield" will be the theme of this year's International Aviation Art Contest. The contest offers school age children the opportunity to become involved in aviation through art.

Entries will be judged in 3 classes: ages 6-9, ages 10-13, and ages 14-17. Calculate contestant's ages as of April 30, 1996. State, national, and international awards will be given in each age category.

Teachers and students interested in participating in the 1996 Aviation Art Contest should contact TxDOT Aviation Division, Yolanda Alvarez, for a brochure outlining the contest rules for format, medium, and entry information at 1-800-68-PILOT.

Deadline for entries is February 16, 1996. Entries are to be sent to our office mailing address, 125 E. 11th Street, Austin, TX 78701-2483

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