

THE NORTH DAKOTA AVIATION COUNCIL PRESENTS

O N A P P R O A C H :

2000

O N A P P R O A C H

UPPER MIDWEST AVIATION SYMPOSIUM



Jim Slade
General Session Speaker
Monday 11:00 AM
"Approach to the Year 2000"



Dr. Jerry Cockrell
Aviation Approaches Speaker
PAASS Program
Tuesday, March 2, 1999



Bill Sweetman
Pilot's Association Speaker
Sunday, February 28, 1999
Monday, March 1, 1999
"Hypersonic & Stealth
Technology"



FEBRUARY 28, MARCH 1-3, 1999

At the Radisson Inn, Bismarck, ND 701/258-7700

SPECIAL ATTRACTIONS

- IA Renewal Sessions
- FAA Wings Program Lectures
- AG Pilot Recertification/PAASS Program
- Expanded Exhibitions Availability
- Tuesday Night Hall of Fame & Awards Banquet
- Monday Night Chili Feed in Exhibition Hall
- Sunday Night Ice Breaker
- Monday, Tuesday Spouses Program
- Door Prizes

- Preregistration \$50.00
 - Registration (after Feb. 19) \$60.00
 - Spouse \$20.00
 - Awards/Hall of Fame Banquet \$20.00
 - One Day Pass \$30.00
 - Food Ticket..... \$15.00
- For registration information call 701/663-0669



 UNITED EXPRESS



Aviation Quarterly

Issue #42

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NDAC

January, 1999

Chairman's Corner

by Dan Vigessa, Chairman, NDAC

Here is the fun part: I get to represent the North Dakota Aviation Council at different functions around the state. Two recent "work assignments" were especially appealing.

The first was in Fargo last November. The Fargo FSDO invited me to represent the Aviation Council at a national FAA awards ceremony. The FAA FSDO office in Fargo had been named the National Office of the Year for Accident Investigation.

I have many friends who would say that I should have felt like a cat burglar that broke into a police station by mistake. Not so! Roger Pfeiffer and I represented the Aviation Council, Shawn Doberstein represented the Airports Association of North Dakota but every other person there was an FAA employee. It felt good. We felt warmly welcomed. It felt like a celebration.

The award is not given to those who chase the most ambulances as you might think. The winners are those who provide a quality investigation of every accident in their district. This means that each investigation is accurate, timely and complete. Each report should have a determination of the cause of the accident and one or more safety recommendations that address the problems that may have caused the accident. FSDO offices are eligible for the award because they do almost 80% of all accident investigations. The NTSB does not have the staff they need to investigate all aircraft accidents.

Mr. David F. Thomas, Director of the Office of Accident Investigation, represented the National FAA office in Washington, D.C. Frank Maly, Manager of the Great Lakes Programs Management Branch, represented Great Lakes Region. These speakers were articulate, knowledgeable and captivating. The presentations revealed a passionate dedication to aviation that us outsiders would never expect. It was a truly rewarding experience. The potluck lunch afterwards didn't hurt either.

The second great opportunity to represent the Aviation Council happened when Riaz

(Continued from page 2)

IA Renewal Only One Set for ND in 1999

SPACE JOURNALIST SLADE, IA RENEWALS, DR. JERRY COCKRELL AND WRITER SWEETMAN SET TO HIGHLIGHT "ON APPROACH: 2000"

Noted journalist/historian Jim Slade, aviation safety expert Dr. Jerry Cockrell and well-known aviation author Bill Sweetman are among the many highlights now set for the 1999 Upper Midwest Aviation Symposium in Bismarck, ND. Scheduled to run from Sunday, February 28th to Wednesday, March 3rd, the Symposium, themed "On Approach: 2000" will be held at the Radisson Inn.

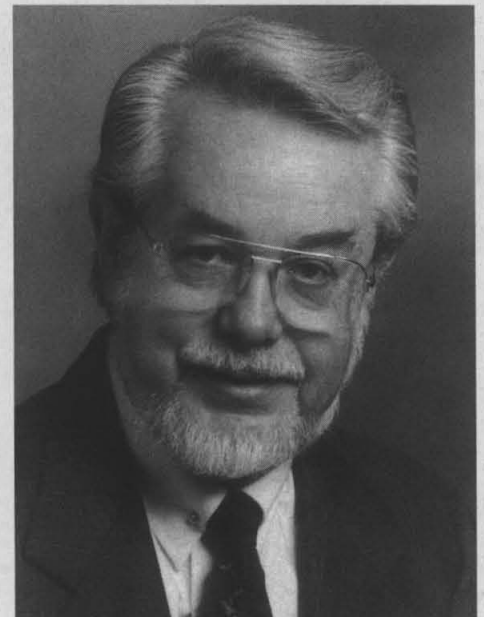
The Symposium will feature a multi-day IA renewal program for area aircraft mechanics seeking to renew their Inspection and Authorization certificates. The program, a cooperative venture between the North Dakota Professional Aircraft Mechanics Association and the Fargo FAA Flight Standards District Office, will be only IA renewal scheduled to be available in North Dakota for the year. The program will begin at the Radisson Inn, Bismarck on Sunday, February 28th and run throughout the Symposium. Subjects to be covered run the gamut from FAA subjects to engine maintenance and non-destructive testing. The complete list can be found in the center section of this issue of the *Quarterly*.

Monday's 11:00 a.m. General Session speaker Jim Slade has covered the United States' space program as both a broadcaster and print journalist since Alan Shepherd's launch in 1961. Still covering the exciting events that are unfolding such as the newest space station in orbit is being constructed, Slade brings a personal perspective to the events in the world's aerospace news. His general session speech, "On Approach to the Year 2000" will help put in perspective the remarkable events that have served to put man on the moon a scant 66 years since the Wright Brothers first flight in 1903. He will speak later that day to the North Dakota Pilots Association on the Wright Brothers at 2:00 p.m. and cover The American Space Program-Then and Now at 4:00 p.m.

The North Dakota Agricultural Aviation Association (NDAAA) will see the return of Dr. Jerry Cockrell to Bismarck, as part of the PAASS Program sponsored by the National Agricultural Aviation Association. Scheduled to commence at 8:00 a.m. Tuesday morning, Cockrell will work with NDAAA members for 3 hours that day. Long noted for his study of human factors in aviation accidents, Cockrell helps attendees learn by thinking and laughing as he brings his breezy, yet highly informative style to the serious topic of accident prevention in the aerial application arena. Monday will see the annual NDAAA recertification program in full swing. It is currently scheduled to commence at 2:00 p.m.

The North Dakota Pilots Association have again scheduled one of their most popular

(Continued from page 9)



Jim Slade

From The Editor

While the wintertime seems to bring about a pause in many aspects of aviation, in this issue you can see that's hardly true where the upcoming Upper Midwest Aviation Symposium is concerned. IA renewals, pilot training and agricultural applicators' recertification are all part of the many highlights for this year's "On Approach: 2000" symposium.

Each member group of the Aviation Council has worked very hard to bring an exciting program to its members and the symposium at large. This year's program will allow attendees to sample many different presentations by most of the member groups. All told, it will be an exciting place to be.

Jim Slade, the General Session speaker will bring a tremendous aerospace journalism background to the Symposium. His insights and experience stand to make his Monday talks to both the Symposium at large and in the ND Pilots Association presentations an exceptional experience. For both mechanics and pilots alike, this year's IA renewal program lecture series will provide all of us with fresh insights into how our planes work and function.

For those who have attended talks by Dr. Jerry Cockrell before, he needs no introduction. For those who have not, you're in for a real treat! His humor, insight and perspective on aviation will make the NDAAA's PAASS program lecture series one that will no doubt pack the house and make this year's recertification program a highlight for all Symposium attendees.

Again, the pilots have out done themselves. From noted author Bill Sweetman to the Seaplane Pilot's Association Pilot of the Year Dale DeRemer of UND, every one of the NDPA's lecture series this year should be informative, fun and educational. Just the mix any pilot would like to see. The best bonus is that most of the lectures will qualify for the FAA "Wings" program ground training segment.

The Airports Association has also worked very hard to give managers and airport board members a very insightful series of talks and presentations. Dollars, pavement and safety are just a few of the many topics that will help each attendee gain new insight as they help shepherd their facility into the new millennium.

Add to this our annual Awards and Hall of Fame Banquet, a great Spouse's Program plus our always outstanding exhibitors' displays and you see that this year's Upper Midwest Aviation Symposium is well worth attending from Sunday February 28th to Wednesday March 3rd. See you at the Radisson Inn in Bismarck!

Andrew Niemyer, Editor-in-Chief

Mandan's Bob Chase Goes West

Robert C. Chase was born on October 19, 1934 in Hebron, the son of Herbert E. and Anna C. (Schiermeister) Chase. He attended Sheyenne River Academy in Harvey, graduating in 1952. In 1956 he graduated from the Lincoln Aviation Institute in Lincoln, Nebraska. Bob married Ruth L. Pierson on August 19, 1956 in Torrington, Wyoming. He was the Mandan Municipal Airport Manager from 1962 until 1988, as well as a mechanic/inspector, agricultural pilot and businessman.

Throughout his lifetime, Bob loved to have many projects and hobbies happening all at the same time. He believed that life was to be lived, not wasted. It was almost as if he feared the possibility that he may not have something to do so he avoided that at all costs. Airplanes were always involved in some way in Bob's life, whether buying and selling parts or entire airplanes. The essence of the airplane experience for him; however, happened when he could leave the restrictions of earth dwelling and take to the sky with one of his planes.

Bob also enjoyed collecting and restoring antique "2-cylinder" John Deere tractors. Once again, like with the airplanes, using those tractors and listening to that distinctive sound while doing his chores and his hobby farming was the real deal for him.

Bob also liked the relaxing diversion that fishing provided, especially when he could draw in family or friends to enjoy it with him. His family and his friends meant everything to him and he revealed in the time spent together with the people he loved. This love of people and his deep love and faith in his God is what made Bob's life distinctive; a life of color and flavor in a many times bleak and bland world. He channeled this love and his full energy into a beautiful book, videotape and personal ministry of sharing the joy of a Christ-filled life so that those he loved could know how to have that same joy and assurance of salvation that he had.

He is survived by his wife, Ruth of Mandan; one son and daughter-in-law, Keith and Cheryl of Hebron; one daughter and son-in-law, Karlene and Wayne Miller of Napoleon; his grandchildren, Ashlie, Britni and Pierson Chase and MiKaela and MacKenzie Miller; his mother, Anna Chase of Statesboro, Georgia; two brother and one sister-in-law, Monroe Chase of Mandan and Jerry and Pam Chase of Hebron; four sisters and brothers-in-law, Severne and Gordon Caster of Jamestown, New York, Dorothy and Tom Massengill of Singapore, Ora Mae and Charles Klein of Denver, Colorado and Eldonna and Dick Hilde of Statesboro, Georgia and many special nieces and nephews. He was preceded in death by his father, Herbert.

North Dakota Pilots Association

By Fred Adams

As many of you, I seem to have more things to get done than time to do them. This fall and early winter is no exception. The NDPA had another Wannabe meeting in Jamestown. Had a good turn out for a Saturday morning. Thanks to Dan Vigesaa and Bob Simmers for their parts of the presentation.

The NDPA schedule for the 1999 Upper Midwest Aviation Symposium is just about finalized. There will be a variety of subjects to choose from - see the schedule in this issue of the Quarterly.

The NDPA will again hold it's annual business meeting during the symposium. We are looking for pilots who are willing to help promote general aviation within the state. Come to the meeting and bring your ideas. Elections of officers will be held at the same time.

Make plans for the February 28th through March 3rd for the Upper Midwest Aviation Symposium in Bismarck. Come and join us!

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COPY DEADLINES

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FROM THE DIRECTOR'S CHAIR

Gary R. Ness

Meet the Aeronautics Commission:

The North Dakota Aeronautics Commission was established in 1947 by the State Legislature assigning responsibility for the state aviation functions. The agency celebrated its 50th Anniversary in 1997 with several events statewide. Now, let's meet the people the Governor appoints to fulfill the mandate.

Robert J. Miller, Chairman, Casselton. Presently a Captain with Northwest Airlines. He is a real estate business owner, manager of the local airport and active in economic development in the Casselton area. He is a former Air Force pilot and aerial ag applicator. He has been flying 35+ years and has been a member of the Commission since 1973.

Jay B. Lindquist, Vice Chairman, Hettinger. President of Air Dakota Flite, a full service FBO with a strong aerial applicator background. He also has interests in banking, retail and farming. He has been flying for 40+ years and has served on the Commission since 1993.

Erling O. Rolfson, Jr., Secretary, New Rockford. Currently in the advertising and publishing business along with an interest in the insurance industry. A Vietnam Era Marine corps aviator, active American Legion, VFW member, and past President of the Airport Association of North Dakota. He has been flying for 30+ years and has served on the Commission since 1993.

Cindy K. Schreiber-Beck, Member, Wahpeton. Currently serving as the Executive Director of the North Dakota Agriculture Aviation Association (NDAAA). Cindy is an educator involved at the state and national level with aviation/aerospace programs. Cindy is active in Tri-State Aviation which is involved in many facets of the aviation industry including parts fabrication, warbird restoration and general mechanical services. She is active in the Wahpeton area businesses and education community and has served on the board since 1997.

Dianne L. Herr, Member, Turtle Lake. This US postmaster is an active private pilot, Vice President of the ND Chapter of the 99's, Member of the North Dakota Pilots Association, and EAA. Diane coordinated the US mail side of the 1989 Centennial Airmail Flight which visited all 100 North Dakota airports as part of the state celebration. Dianne is very active in community affairs but finds time for Young Eagles and organizing a well attended fly-in at the local airport. She is the newest member of the Commission being appointed by Governor Edward T. Schafer on December 4, 1998.

Mission Statement:

To provide, at the highest priority, economic and technical assistance to insure an orderly and cost effective support system within the state.

The Commission is a governmental arm that is designed to be responsive to the citizens of the state and responsible for the promotion and regulation of the aviation industry. These commission members are the citizen's touch stones. They are committed to the development of aviation. Please share your concerns and ideas with not only these people, but the staff at the Commission. See you at the symposium!



(Chairman's Corner continued from page 2)

Aziz invited me to participate in the second installment of the Upper Great Plains Transportation Institute Rural Air Service Aviation Teleconference. (I think that's UGPTIRASAT for short - - - Maybe not.)

Nine states plus the District of Columbia were represented. I counted 38 participants counting Mr. Aziz, the coordinator. This conference discussed the future of FBO's and the use of Regional Air Carriers all morning and the NASA AGATE program in the afternoon.

At first blush it looked like the teleconference was nothing but a litany of all the troubles that aviation has struggled with during the last 20 years. A closer look showed me four distinct themes that define aviation now and in the future.

The first theme was simple. An FBO can survive if its management uses good business practices, pays careful attention to its customers and takes good care of its employees. A friend of mine is building a very successful FBO even though he has very little aviation background. This is because he is a very good businessman and he always pays attention to accepted business practice.

Theme two says that the airport management must not stand in the way of the FBO. An airport will not be successful if it does not have a successful FBO. A conflict between the airport manager and the FBO can easily kill the airport. Airport minimum standards operating procedures, facilities, security plan, etc. must all be designed with the best interests of the FBO in mind. One participant suggested that all communities that receive AIP funding for their airports should be required to ensure that that airport will host a successful FBO.

The third theme promoted the idea that new technology makes it possible for almost any community to have a successful airport. Bells and whistles like GPS approaches, AWOS and ASOS, data links, smart unicoms and pilot controlled facilities can make any airport more accessible.

The fourth theme that I heard was that an FBO must grow its own business. The future depends on how well an FBO cultivates new flight students and how well it can nurture and promote its employees. The most pressing current need may be to provide adequate training to the managers of tomorrow's FBO's so they will be successful.

I didn't stay with the rest of the program very well. I don't travel much with the Regional Carriers so I didn't focus much on those issues.

The AGATE presentation was fascinating but futuristic. All of the potential that NASA could see in general aviation left me breathless. Low time private pilots traveling at Flight Level 350 at speeds approaching 400 knots and making approaches to category II instrument minimums in four-place single engine airplanes with piston engines and glass cockpits sounds exciting. I hope I am ready for it when it comes.

The North Dakota Aviation Hall of Fame Takes Pride in Announcing the Selection of:

John D. Odegard
And
Warren V. Walkinshaw

*For Induction into the Aviation Hall of Fame,
Tuesday Evening, March 2nd, 1999
Upper Midwest Aviation Symposium Awards Banquet
Radisson Inn, Bismarck, ND*

Spouse's Program to Highlight Monday, Tuesday Afternoons

The Upper Midwest Aviation Symposium's Spouse's Program will again be paced to highlight everyone's afternoons this year. From games on Monday to thoughtful family histories on Tuesday, this year's presentations should appeal to all the spouses who will be in Bismarck for UMAS. On Monday, March 1st, the ever-popular "Dirty Bingo" will again be played. The prizes will be great and the fun and relaxation promises to let everyone have a terrific time. Plan on joining your fellow spouse's starting at 2:00 p.m. Look for announcements in the Courtyard starting on Monday morning.

Tuesday will feature a "Creative Memories Seminar." Photo preservation, creative presentation and tips on photo organization, cropping and how to make a photo journal all will be offered. The workshop will last about one hour, and is scheduled to kickoff at 2:00 p.m. Specifics will be available in the Courtyard area.

UMAS '99 Schedule of Events *Pull Out and Take with You!*



Sunday, February 28, 1999

	NDAAA	NDPAMA	NDPAMA (IA Renewal)	NDPA	AAND
2:00 PM to 2:50 PM			*Propeller Care and Maintenance <i>Butch Maxwell Maxwell Aircraft</i>	**Flying the Bush In Alaska Navigation <i>Dale DeRemer</i>	
3:00 PM to 3:50 PM			*Non Destructive Testing <i>Wade Padmos Superior NDT & Michael Mullan Ridgewater Tech College</i>	**Class "D" Operations MOT & BIS ARCT <i>Darrel Pittman & Ken Wingenbach</i>	
4:00 PM to 4:50 PM	Executive Committee Board Meeting		*PTG Engines Inspections <i>Phil Reinbold Dallas Airmotive</i>	Stealth and Hypersonic Aircraft Technology <i>Bill Sweetman</i>	

* AMT Awards Credit

**Wings Award Credit

ICE BREAKER - 5:00 PM TO 9:00 PM in COURTYARD
FREE BEER, PIZZA, AND SUBS!

Monday, MARCH 1, 1999

	NDAAA	NDPAMA	NDPAMA (IA Renewal)	NDPA	AAND
8:00 AM to 8:50 AM		*PT6 - Trouble Shooting <i>Pratt & Whitney</i>	*Aircraft Technical Publishers <i>Ron O'Dea</i>	**Seaplane Operations <i>Dale DeRemer - UND</i>	
9:00 AM to 9:50 AM		*Propeller Care and Maintenance <i>Butch Maxwell Maxwell Aircraft</i>	*Ignition Systems Turbine Engines <i>Steve Stoudt Champion Corporation</i>	**Class "D" Operations MOT & BIS ARTCT <i>Darrel Pittman & Ken Wingenbach</i>	
10:00 AM to 10:50 AM		*PT6 Inspections <i>Phil Reinbold Dallas Airmotive</i>	*Fuel Flow Components <i>Alan Jesmer Precision Airmotive</i>	Stealth and Hypersonic Aircraft Technology <i>Bill Sweetman</i>	

11:00 AM to 11:50 AM General Session in the Courtyard featuring Jim Slade - "On Approach to the Year 2000" plus North Dakota Aeronautics Commission Art Contest Winners

2:00 PM to 2:50 PM	Recertification and Initial Certification		*FAA Subjects <i>Fargo FSDO</i>	The Wright Brothers <i>Jim Slade</i>	Federal & State Airport Programs <i>Irene Porter - FAA Mark Holzer - NDAC</i>
3:00 PM to 3:50 PM	Recertification and Initial Certification		*FAA Subjects <i>Fargo FSDO</i>	Class "D" Operations MOT & BIS ARTCT <i>Darrel Pittman & Ken Wingenbach</i>	Pavement Management Study <i>Bill Green Ekrose/Green</i>
4:00 PM to 4:50 APM		FAR PART 135 <i>Fargo FSDO</i>	*Piston Engines <i>Paul McBride Textron Lycoming</i>	US Space Program <i>Jim Slade Then and Now</i>	Airport Safety, A Pilot's Perspective Study <i>Fargo FSDO</i>
5:00 PM to 5:50 PM	Open for Association Meetings	Open for Association Meetings	Open for Association Meetings	Open for Association Meetings	Open for Association Meetings

* AMT Awards Credit **Wings Award Credit

FREE Chili - 6:00 PM to 9:00 PM in the Exhibit Hall

Tuesday, MARCH 2, 1999

	NDAAA	NDPAMA	NDPAMA (IA Renewal)	NDPA	AAND
8:00 AM to 8:50 AM	PAASS Program <i>Dr. Jerry Cockrell</i>		* Bonanza & King Air Maintenance <i>Warren Hillwig Raytheon Corp.</i>	**VFR Navigational Charts <i>Dan Rooks - NOS</i>	Establishing GPS Approach <i>Phil Peterson - FAA</i>
9:00 AM to 9:50 AM	PAASS Program <i>Dr. Jerry Cockrell</i>	Propeller Balancing <i>Chadwick Helmeth</i>	*Wheels & Brakes Maintenance Procedures <i>Dave Simpson Parker Hannifin</i>	**Lessons Learned '97 Accident Review <i>Les Ellingson FAA Fargo FSDO</i>	FBO & Airport Relations Rates & Charges <i>Riaz Aziz</i>
10:00 AM to 10:50 AM	PAASS Program <i>Dr. Jerry Cockrell</i>	* Teledyne Continental <i>Loren Lemen</i>	* Corrosion Control Anti-Corrosion Techniques <i>Tim Van Gilder</i>	**IFR Navigational Charts <i>Dan Rooks - NOS</i>	Federal Airport Programs <i>Irene Porter - FAA</i> AAND Business Meeting

2:00 PM to 2:50 PM	FAA: Ag Issues <i>Les Ellingson FAA Fargo FSDO</i>	*FAR 43 - Review <i>Mike Smith Rapid City FSDO</i>	*Lamar Starters Trouble Shooting <i>Alan Jesmer Precision Airmotive</i>	Sex and Money I <i>Richard Keltner Nationair Insurance Co.</i>	FBO & Airport Relations Rates and Charges <i>Riaz Aziz</i>
3:00 PM to 3:50 PM	Drift Insurance	*Ignition Systems Piston Engines <i>Speaker TBA</i>	*Non-Destructive Testing <i>Wage Padmos Superior NDT & Michael Mullan</i>	Sex and Money II <i>Richard Keltner Nationair Insurance Co.</i>	FAA: Part 61 & 91 Issues <i>Les Ellingson Fargo FSDO</i>
4:00 PM to 4:50 APM	Drift Insurance		PAMA Business Meeting	Sex and Money III <i>Richard Keltner Nationair Insurance Co.</i>	Pavement Management Study <i>Bill Green Ekrose/Green</i>
5:00 PM to 5:50 PM	NDAC Organizational Meeting <i>Newly elected Org Reps</i>				

* AMT Awards Credit **Wings Award Credit

7:00 PM Annual Awards Banquet featuring Sam Ting (Social Hour 6:00 PM)

Wednesday, MARCH 3, 1999

	Room TBA
8:00 AM to 8:50 AM	Left Open for Make Up Classes/Testing and Board Meetings
9:00 AM to 10:30 AM	Open Forum (Topic to be Determined)
10:30 AM to 12:00 PM	ND Aeronautics Commission Meeting

AVOID THE RUSH!
Register Sunday,
February 28, 1999
starting at 2:00 PM
See You There!

NDAAA NEWS: PAASS PROGRAM WILL BE PART OF RE-CERTIFICATION PROGRAM

The PASS Program presented by Dr. Jerry Cockrell on Tuesday morning, March 2, 1999 at the Upper Midwest Aviation Symposium, will be part of recertification training. According to other aerial applicators, this is a dynamite program focusing on your decision making skills. Dr. Cockrell has the ability to enlighten and entertain, making a four hour training session seem like 30 minutes.

Our sincere thanks to Andrew Thostenson,

NDSU Extension Service, for approving the PAASS Program as part of recertification training. Although the Association has been working on converting to a point system of recertification (with the assistance of the Extension Service), this has been put on hold due to the EPA's proposal of a set of guidelines that will standardize testing across the United States.

(Continued on Page 10)

AAND News

by *Tim Thorsen*

The Upper Midwest Aviation Symposium is on track and will provide AAND members as well as other attendees a symposium well worth going to. Subjects will be presented two times on the 1999 schedule to allow members to attend interesting subjects given by other organizations. Airport subjects this year will include: Presentation of Federal and State Airport Programs given by Irene Porter from the Bismarck Airports District Office, FAA, and Mark Holzer from the North Dakota Aeronautics Commission; a pavement study of ND Airports presented by Bill Green of Ekrose and Green. (Ekrose and Green conducted the study for the ND Aeronautics Commission). The results of this report will impact future Federal and State grant support. This will be your chance to ask questions about an important study. The Fargo FSDO office will present "Airport Safety-A Pilot's Perspective". The presentation will address reasons for a recent increase in aircraft accidents in ND as well as other airport safety issues.

The FAA will give an overview of how GPS approaches are established. This issue is timely in that many airports not currently served by an instrument approach and may have an opportunity to establish a GPS approach in the future. An AAND General meeting and election of officers and representatives.

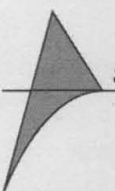
I strongly encourage each of you to attend the 1999 Symposium. This event fosters growth of aviation in North Dakota and Aviation is what each individual Airport and the ANND is all about! See you there!

(Space Journalist continued from page 2)

recurring speakers, Bill Sweetman of Minneapolis, MN to be present both Sunday and Monday of the Symposium. The author of over 20 books, including his 1998 in-depth study of the new F-22 Raptor, Sweetman will again help his audiences explore the exotic and closely held secret world of stealth and hypersonic technologies. Further NDPA speakers include Sea Plane Pilots Association Pilot of the Year for 1998, Dale DeRemers from UND Aerospace, covering bush flying and seaplane operations, Jim Slade, mentioned above, NOS cartographer Dan Rooks and Nationair Insurance Co. representative Richard Keltner speaking on "Sex and Money" for the afternoon of Tuesday, March 2nd.

The exhibit hall again looks to be packed with a large number of exhibitors from all areas of the aviation industry. This year's Symposium will see greater availability times for attendees to come and visit with exhibitors and get in depth answer to their questions regarding the many, varied products available to them. Free chili will be available throughout the exhibition hall on Monday night, March 1st, from 6:00 to 9:00 p.m., an opportunity that few will want to miss. Sunday night's icebreaker in the courtyard will see the ever popular presence of free beer, pizza and sub sandwiches starting at 6:00 p.m. to allow attendees the time to chat and visit with their many friends, both old and new.

Beat the Rush!
Mail Your
Registration Today!



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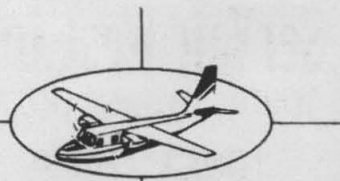
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CPM DAY AT THE FARODOME

March 9, 1999, is the date of the first ever Crop Production Management Day. Sponsored by Case, Concord, Novartis, Ostlund and the Red River Farm Network this event is an information and education forum for growers. The Association was invited to exhibit and aircraft that is equipped with GPS. Randy Lahren and Dale Faust volunteered to research moving the aircraft on site and Mike Deck will enhance the effort with GPS and nozzle displays. This is an opportunity to promote the aerial application industry through technology and education.

Aeronautics Commission Survey

Thank you to the operators who completed the recent survey sent to all registered aerial sprayers in the state. The information gathered will provide some statistics, which are needed in the legislative arena. It is very difficult to surmise numbers and the general feeling for the industry without input from the operators. For those who did not complete the survey, your responses and thoughts are still welcome. To clarify, the Aeronautics Commission staff did not write the proposed legislation contained in the survey. Please read completely all information you receive concerning current issues and contact your director for additional information.



Way-Point Avionics, Inc.

PHONE TOLL FREE
800-333-4064

2301 University Drive #38
Bismarck Municipal Airport
Bismarck, North Dakota 58504
Phone: 701/223-2055

NORTH DAKOTA PROFESSIONAL AVIATION MECHANICS ASSOCIATION *Mechanic of the Year*

INSTRUCTIONS: Use a separate form for each entry.
All entries must be either typewritten or neatly hand lettered.

Name: _____ FAA Certificate No. _____

Address: _____ FCC License No. _____

Telephone No. _____

Employer: _____

Employers Address: _____

Year first designated a Maintenance Technician: _____

Years experience. _____

ENTRY DETAILS: Give brief but factual description. Drawings, photographs or other presentations may be included to assist the judging committee. All entries become the property of the Selection Committee and will not be returned.

(If additional space is required, attach additional sheets)

ENTRY SUBMITTED BY: (If other than entrant) (Optional) _____

Name: _____ Address: _____

Employed by: (Name and address) _____ Position held: _____

Date: _____ Signature of person submitting entry: _____

MAIL ENTRY FORM TO: NORTH DAKOTA AERONAUTICS COMMISSION-c/o NDPAMA AWARDS-PO Box 5020 Bismarck, ND 58502 - **NO LATER than 02/22/99**
OR: Hand delivered to NDPAMA, first Monday annual meeting at the North Dakota Aviation Symposium.

QUALIFICATIONS: Each person submitted on the entry form must hold FAA Airframe and/or Powerplant rating, or Repairman Certificate, and must be employed in the field of aviation maintenance in the state of North Dakota.

JUDGING: Persons responsible for judging will be the former NDPAMA President. He will form a committee including him/her self, a representative from the FAA and one (1) representative from the NDAC to assist in the judging. If the former President is not present for the annual meetings than the NDPAMA officers will be responsible for selecting a former NDPAMA officer to take his/her place.

AWARD: The award given out will be \$300 to the selected mechanic of the year.

"On Approach: 2000"

UPPER MIDWEST AVIATION SYMPOSIUM FEBRUARY 28, MARCH 1-3, 1999

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REGISTRATION FORM

(Please Print or Type)

Name of Participant _____ Spouse Name _____
(to be printed on name tag)

Address _____ City _____ State _____ Zip: _____

Company or Airport Name _____ Phone _____

Email Address _____

*Pre-Registration Fee:

+Member	\$50.00+	_____
<Food Ticket	\$15.00<	_____
Spouse	\$20.00	_____
Awards/Hall of Fame Banquet.....	\$20.00	_____
One Day Pass.....	\$30.00	_____

Organizational Dues: (you must be a member of one organization to register for the symposium)

Airport Association of North Dakota.....	\$25.00	_____
North Dakota Agricultural Aviation Association	\$50.00	_____
Associate Membership	\$10.00	_____
North Dakota Aviation Association	\$25.00	_____
Associate Membership	\$10.00	_____
North Dakota Flying Farmers.....	\$55.00	_____
North Dakota Pilots Association	\$12.00	_____
Associate Membership (Non-Voting)	\$10.00	_____
North Dakota Professional Aviation Mechanics Association.....	\$15.00	_____
Associate Membership (Non-Voting)	\$10.00	_____
North Dakota Sport Aviation Association & Experimental Aviation Association	\$55.00	_____

GRAND TOTAL \$ _____

*Registration fee includes: Admission to Symposium, Exhibit Area, and Speakers.
 <Food Ticket includes up to six meals. Ticket after Feb. 19 is \$20.00. Banquet extra.
 +Registration after February 19 is **\$60.00**

Mail To: Jim Lawler • 4492 Hwy. 6 • Mandan, North Dakota, 58554

WHAT IS THE NORTH DAKOTA AVIATION COUNCIL?

Many of you are receiving this complementary issue of the North Dakota Aviation Quarterly for the first time.

Even if you do not plan on visiting us at the Symposium, we'd like to acquaint you with our organization: **North Dakota Aviation Council, "United We Stand"**

The North Dakota Aviation Council was founded in 1983 by six state aviation organizations interested in promoting aviation in the state and in presenting their concerns before government and the general public. NDAC was founded with the notion that solutions to problems facing aviation in this state can be best served by consolidating and working together rather than struggling as independent special interest groups.

NDAC seeks to serve aviation professionals by providing a forum for the exchange of information, ideas, and experience among their peer-pilots, agricultural operators, airport managers, FBO's, mechanics, and educators. Advancing their goal is an important function of the Upper Midwest Aviation Symposium (our annual convention).

Over the years, NDAC has become an influential voice for the flying public and

aviation services in North Dakota. By combining our talents and resources, we are set to explore answers to the most pressing issues of today and to ready ourselves for the exciting challenges of tomorrow.

Organizations Making Up NDAC:
NDPAMA, North Dakota Professional Aviation Mechanics Association
NDAA, North Dakota Aviation Association
AAND, Airport Association of North Dakota
NDFF, North Dakota Flying Farmers
NDAAA, North Dakota Agricultural Aviation Association
NDPA, North Dakota Pilot's Association
DTAM, Dakota Territory Air Museum
Affiliated Organizations Associated with NDAC:

North Dakota Aeronautics Commission
North Dakota Aviation Quarterly, 99's

For further information on joining a member organization contact:

ND Aeronautics Commission
P.O. Box 5020
Bismarck, ND 58502
701/328-9650

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