





## 2000 TECH CENTER AWARDS

### "OUR PEOPLE--OUR FUTURE"



The 2000 Tech Center Awards Ceremony is just around the corner. The ceremony will be held on July 19, at 1 p.m. in the auditorium. For the past several weeks, the awards committee has been collecting nominations. The large number of nominees for this year's awards helps prove what we've known all along -- the Center is one of the most productive organizations in the agency because of the expertise and commitment of all of its employees. Congratulations to this year's nominees . . .

#### **Publications**

John Bakuckas (AAR-431)  
Constantine Sarkos (AAR-422)  
William Curby (AAR-520)  
Tom Chamberlain (AAR-520)

#### **Professional Society**

Catherine Bigelow (AAR-430)  
Dorothy Buckanin (ACT-300)

#### **Field Support**

Tom Poussart (AOS-420)  
Joe Mahon (AOS-420)  
Larry McMillen (ACT-330)  
Richard Dunklee (ACT-330)  
Martin Badinelli (ACT-330)  
Y. Viet Troung (ACT-330)  
Kiem Hoang (ACT-330)  
Gary Dyer (AOS-420)  
Daniel Yatsko (AOS-420)  
William Griffith (ACT-232)  
Norman Jones (ACT-232)  
William Belton (ACT-232)  
Everett Williams (ACT-232)  
Gerry Guasp (ACT-232)  
Olethia Lawson-Brown (ACT-232)

#### **Technical Program**

Patricia Cahill (AAR-422)  
Constantine Sarkos (AAR-422)  
Timothy Marker (AAR-422)  
Richard Hill (AAR-422)  
Peter Shyprykevich (AAR-430)  
Kelly Leone (AAR-510)

Ahmad Hazaveh (ACT-610)  
Don Oplinger (AAR-431)  
Dy Le (AAR-431)  
Jeffrey Livings (ACT-310)  
Lee Spanier (AAR-520)  
Mark Gallant (ACT-212)

#### **Technical Support**

Chris Dumont (AAR-421)  
Anthony Cerino (AAR-510)  
Stephen Malitsky (ACT-330)  
Tuan Tran (ACT-330)  
Ruben Rivera (ACT-412)  
Jeanne Miller (ACT-412)  
Scott Harris (ACT-412)  
Louis Spagnuolo (ACT-412)  
Harry Fowler (ACT-412)  
Al Erickson (ACT-412)  
John Miller (ACT-412)  
Kahoya Gibson (ACT-412)  
Tim Schruig (ACT-412)  
Keith Morgenweck (ACT-412)  
Fred Clark (ACT-412)  
James Peck (ACT-412)  
Walt Woerner (ACT-412)  
Daniel Haubrich (ACT-410)  
Patricia Moore (ACT-423)  
Barbara Ross (ACT-422)  
Barbara Blackwood (ACT-422)  
Gladys Bradbury (ACT-422)  
Vince Mazza (ACT-422)  
Patricia Champagne (ACT-422)  
Bobby Nichols (ACT-423)  
Russ Atwood (ACT-423)

Glory Graham (ACT-422)  
Vergie Jones (ACT-422)  
Robert Morgan (ACT-422)  
Barbara Rice (ACT-422)  
Joyce Robinson (ACT-422)  
Charlotte Hoskins (ACT-422)  
Jeff Ireland (ACT-412)  
Leonard Turreen (ACT-423)  
Rosie McGriff (ACT-422)  
Adam Greco (ACT-510)  
Nick Roselli (ACT-510)  
Dan Warburton (ACT-510)  
Frank Coffman (ACT-510)  
Russ Atwood (ACT-423)  
Laurel Wittman (ACT-51)  
John Petro (ACT-330)  
Therese Brennan (AAR-540)  
Lee Spanier (AAR-520)  
Ron Krauss (AAR-520)  
Andy Colon (ACT-330)  
Christiana Tan (AAR-424)  
Dennis Steelman (ACT-500)

#### **Team Achievement**

Natalie Reed (ACT-200)  
Melissa French-Gates (ACT-50)  
Laurel Tootell (ACT-300)  
Michele Holmes (ACT-400)  
William Reilly (ACT-500)

Paul Tan (AAR-430)  
Xiaogong Lee (AAR-430)  
Arlene Smith (AAR-400)  
William Cavage, Jr. (AAR-420)

# AND THE NOMINEES ARE . . .

Rosanne Weiss (AAR-424)  
 Michel Hovan (AAR-410)  
 James White (AAR-410)

Mike Snyder (AAR-510)  
 Eric Neiderman (AAR-510)  
 Mike Barrientos (AAR-510)  
 Brenda Klock (AAR-510)  
 Susan Monichetti (AAR-510)

Andy Lee (ACT-601)  
 Bill Sheehan (ACT-7)  
 Kathy Herman (ACT-600)  
 Al Lisicki (ACT-600)  
 Walter Vernon (ACT-8)

Peter Castellano (ACT-4)  
 Janet Currey (ACT-50)  
 Grace Kelly (ACT-51)  
 Melissa French-Gates (ACT-50)

Dale Dangler (ACT-73)  
 Ron Meilicke (ACT-73)  
 Nelson Carey (AAR-530)  
 Ernie Pappas (ACT-73)  
 Sue Wall (ACT-73)  
 Michael Gross (ACT-73)  
 Bill Morgan (AAR-540)  
 Ray Schilinger (AAR-530)  
 Bob Michael (ACT-73)  
 Ken Hacker (AAR-530)  
 Howard Fleisher (AAR-530)  
 Theresa McGhee (AAR-540)

Dennis LaMagna (AOS-540)  
 Angela Lewis (ACT-240)  
 Steve Reynolds (AOS-310)  
 Cheryl Matthews (AOS-520)  
 Ernie Heinz (ACT-211)  
 Bob Fietkiewicz (ACT-210)  
 Scott Matusek (AOS-520)  
 Daniel Haubrich (ACT-410)  
 Bill Hoffman (ACT-1C)  
 Dan Warburton (ACT-510)  
 Adam Greco (ACT-510)

Rick Astillero (ACT-360)  
 Jim May (AOS-610)  
 Cheryl White (ACT-204)  
 Bobby Nichols (ACT-423)  
 Thomas Jennings (ACT-330)  
 Tom Ryan (AOS-430)

John Wiley (ACT-200)  
 Tony Sazon (ACT-210)  
 Howard Seiver (ACT-212)  
 Meinard Simons (ACT-212)  
 Russ Spadea (ACT-210)  
 Robert Mulholland (ACT-212)  
 John Walczak (ACT-212)  
 Jay Brown (ACT-210)  
 R. S. Wang (ACT-212)  
 Michael Headley (ACT-212)  
 Edward Marciano (ACT-233)  
 Mark Gallant (ACT-212)  
 Sigmund Chow (ACT-212)  
 Joe Brady (ACT-212)  
 Wayne Nowicki (ACT-210)  
 Edward Gaguski (ACT-212)  
 Douglas Crispell (ACT-212)  
 Mark McMillen (ACT-250)  
 Brandon DelValle (ACT-212)  
 Yu-Cheung Chiu (ACT-212)

Leroy Dickerson (AAR-422)  
 Timothy Marker (AAR-422)  
 John Reinhardt (AAR-422)  
 Dave Blake (AAR-422)  
 Dung Do (AAR-422)

Roberto Delgado (AOS-520)  
 Andy Isaksen (AOS-520)  
 Mike Aguir (AOS-500)  
 Jim Crowell (AOS-500)  
 Mariano Alicea (AOS-520)  
 Bill Hunter (AOS-520)  
 Jon Rudeseal (AOS-500)  
 John Spalding (AOS-520)  
 Carol Phillips (AOS-500)  
 Thomas Jennings (ACT-330)  
 Hal Casion (AOS-500)

Tuan Tran (ACT-330)  
 Scott Matuesk (AOS-520)  
 Dennis LaMagna (AOS-540)  
 Michael Gallagher (AOS-520)  
 Keith Wallace (AOS-520)

Howard Sheckman (ACT-340)  
 John Frederick (ACT-231)

Grace Kelly (ACT-51)  
 Linda Cassone (ACT-51)  
 Marilyn Knopp (ACT-51)  
 Jose Benitez (ACT-51)  
 Donna DiPasquale (ACT-51)  
 Lisa Ferrante (ACT-51)  
 Chris Gallagher (ACT-51)  
 Doris Hemling (ACT-51)  
 Mario Maccarone (ACT-51)  
 Ken Hitchens (ACT-51)  
 Anglee Worrell (ACT-51)  
 Larry Levy (ACT-51)  
 Anne Marie Ternay (ACT-51)  
 Robert Loftus (ACT-51)  
 Sonny Phiffer (ACT-51)  
 Debora Monzo (ACT-51)  
 Anna Marinaro (ACT-51)  
 Deborah Germak (ACT-51)  
 Laurel Wittman (ACT-51)  
 Arlene Primo (ACT-51)

John Tye (AAR-540)  
 Jason Reap (AAR-540)  
 William Morgan (AAR-540)

Sharon Moore (AAR-540)  
 Theresa McGhee (AAR-540)  
 Kim Lee (AAR-540)  
 Joseph Kuenkle (AAR-500)  
 Therese Brennan (AAR-540)  
 David Taylor (AAR-540)  
 Tama Nelson (AAR-540)

Richard Finley (AOS-620)  
 Dick Shaw (AOS-620)  
 Brian Walsh (AOS-620)

## AND THE NOMINEES ARE . . .

Ray Mueller (AOS-620)  
Marty Lilly (AOS-620)  
Patrick Crean (AOS-620)

Gary Poulsen (ACT-601)  
Mike Dawson (ACT-601)  
Mario Maccarone (ACT-51)  
Andy Lee (ACT-601)  
Debby Crawford (ACT-600)  
Ken Crawford (ACT-640)  
Ron Heist (ACT-601)  
Lou Diorio (ACT-601)  
Walter Woerner (ACT-630)  
Paul Chubb (ACT-650)  
Joe Jones (ACT-601)  
Donna Taylor (ACT-601)  
Marjorie Smith (ACT-601)

Ron Krauss (AAR-500)  
Susan Monichetti (AAR-500)  
Tom Chamberlain (AAR-500)  
Brenda Klock (AAR-500)  
Michael Snyder (AAR-500)  
Kim Lee (AAR-500)  
Eric Neiderman (AAR-500)  
Joe Kuenkle (AAR-500)  
Bill Morgan (AAR-500)  
Lee Spanier (AAR-500)

John Lapointe (AAR-424)  
Charles Masters (AAR-421)  
Constantine Sarkos (AAR-422)

Ray Alimenti (ACT-310)  
Andrew Leone (ACT-310)  
Joe Starkman (ACT-310)

William Petracchi (AAR-500)  
Kim Lee (AAR-500)  
William Morgan (AAR-500)  
Therese McGhee (AAR-500)  
Joe Kuenkle (AAR-500)  
Lok Koo (AAR-500)

Steve Beamer (ACT-232)

John Frederick (ACT-232)  
Olethia Lawson-Brown (ACT-232)  
Evertt Williams (ACT-232)  
William Griffith (ACT-232)  
William Belton (ACT-232)  
Jerry Guasp (ACT-232)  
Norm Jones (ACT-232)

John VanDongen (ACT-350)  
Tom Pagano (ACT-350)  
Mark Ehrhart (ACT-370)  
Cuong Lee (ACT-350)  
Mike McNeil (ACT-310)  
Paul Dawson (ACT-350)  
Carl Jezierski (ACT-350)  
Kevin Fehr (ACT-350)  
Cathy Ciaramella (ACT-350)  
James Rambone (ACT-350)  
Paul Quick (ACT-350)  
Joslin Carino (ACT-350)  
Nick Talotta (ACT-350)  
Jason Childs (ACT-310)  
Mike Petri (ACT-350)  
John Geysler (ACT-370)  
John Stanks (ACT-350)  
Theos McKinney (ACT-370)  
Tom Mazaika (ACT-370)  
Bill Mateer (ACT-310)  
Fred Carl (ACT-370)  
Chris Perone (ACT-310)  
Armando Gaetano (ACT-370)  
John Birney (ACT-370)  
Mike McAnulty (AND-500)  
Rick Osmore (AND-500)  
Lou Berman (ACT-370)  
Larry VanHoy (ACT-370)

Richard Lewis (AOS-340)  
David King (AOS-340)  
Ken Keiser (ACT-240)

John Frederick (ACT-232)  
Jerry Guasp (ACT-232)  
Chris Raab (ACT-232)  
Wanda Lopez (ACT-232)

Ray Singleton (ACT-232)  
Steve Beamer (ACT-232)  
Olethia Lawson-Brown (ACT-232)  
Tuan Tran (ACT-330)  
Scott Harris (ACT-421)  
Thomas Jennings (ACT-330)

John Spenser (ACT-410)  
Henry Scozzafava (ACT-410)  
Jerome Deibel (ACT-410)  
Anthony Rodriguez (ACT-410)  
Edward DiProspero (ACT-410)  
Alex Storoz (ACT-410)  
Don Marple (ACT-410)  
Shiela Sporkin-Edel (ACT-410)  
Paul Simon (ACT-410)  
Robert Warner (ACT-410)  
Juana Derrick (ACT-410)  
Dimetrious Arhontoulis (ACT-410)  
Samuel Wilson (ACT-410)  
Hiram Vasquez (ACT-410)  
Walter Woerner (ACT-410)  
Daniel Haubrich (ACT-410)  
David Senn (ACT-410)

### Administrative Support

Joan Feuerstein (ACT-250)  
Arlene Primo (ACT-51)  
Peter Castellano (ACT-4)  
Melissa French-Gates (ACT-50)  
Michael Versage (AAR-530)  
Laurel Wittman (ACT-51)  
Susan Lake (ACT-550)  
Cari Eisele (ACT-30)  
Lynn Jones (ACT-500)  
Alexander Storoz (ACT-400)

### Secretary of the Year

Fred Breen (AOS-340)  
Jennifer Hall (ACT-530)  
Barbara Davenport (AAR-420)  
Marc Fessler (AAR-430)  
Mary Granese (ACT-31)  
Nancy Gosner (ACT-300)

## AND THE NOMINEES ARE . . .

Gayle Martin-Taylor (ACT-3)  
Brenda Mullis (AAR-410)  
Wanda Harris (ACT-2)  
Patricia Lui (ACT-1)  
Mary Lalasis (ACT-610)  
Joann D'Ascenzo (ACT-330)

### Model Work Environment

Nelson Miller (AAR-420)  
Pat Mabis (ACT-70)  
Catherine Bigelow (AAR-430)  
Kimberly Tweedle (ACT-9)

### Community Outreach

Rosanne Weiss (AAR-424)  
Armando Gaetano (ACT-370)

Diane Trazzera (AOS-310)  
Courtney Dudley (ACT-240)  
Beth Burkett (ACT-400)

### Leadership

Paul Polski (AAR-500)  
Pat Mabis (ACT-70)  
Richard Page (ACT-206)  
John Lapointe (AAR-424)  
Walter Wall (AAR-510)  
Patricia Watts (AAR-400)  
Edward Gaguski (ACT-212)  
Ronald Esposito (ACT-3)  
Bernard Hanlin (ACT-206)  
Olethia Lawson-Brown (ACT-232)  
Douglas Crispell (ACT-212)

### Innovator

Richard Lyon (AAR-422)  
Susan Hallowell (AAR-520)  
Lee Spanier (AAR-520)  
Anthony Sazon (ACT-212)

### Employee of the Year

Gordon Hayhoe (AAR-410)  
Kenneth Allendoerfer (ACT-530)  
Kathy Fazen (AAR-424)  
Albert Mancini (ACT-200)  
Richard Dunklee (ACT-330)  
Gregory Forrest (ACT-640)

**CONGRATULATIONS!**

## INVENTION THROUGH EDUCATION



On April 14, ACT-70's Community Outreach Program hosted the Student Invention Through Education (SITE) program. The Educational Information Resource Center (EIRC) in Sewell, NJ, sponsored the event, which included 75 students, grades kindergarten through twelfth. It was quite a lively sight in the Atrium Area that day, with students, parents, siblings, teachers, and judges all there to see the 39 creative invention submissions.

Community Outreach Program Manager **Carleen Genna-Stoltzfus** wants to thank Linda McCay from the zoo, Maureen Heffernan for doing an excellent Creative Arts workshop, all the folks from EIRC that helped out, Wackenhut for their continued support, Nobil Food Service, **Ernie Pappas** and **Annette Harrell** (ACT-73), **Dennis Filler** (ACT-500), for his closing

remarks, and all the judges: Joe Hanko, Ed White, Joe Hobbie, **John Wilson** (ACT-250), **Rosanne Weiss** (AAR-423), **Karen DiMeo** (ACT-540), **Sherri Magyarits** (ACT-540), **Annie Clark** (ACT-250), and **Debbie Goodson** (CSSI).



## SECOND ANNUAL MODEL WORK ENVIRONMENT (MWE) MANAGER/SUPERVISOR OF THE YEAR AWARD

Congratulations to **Nelson Miller**, Manager, Aircraft Safety Research and Development Branch (AAR-420), who recently received the Second Annual FAA William J. Hughes Technical Center's MWE Manager and/or Supervisor of the Year Award.

This annual award recognizes managers and/or supervisors who show exemplary achievement in creating and supporting a Model Work Environment. The manager/supervisor must demonstrate an in-depth understanding of managing diversity programs and practices which foster and support a Model Work Environment. An 8-member review panel rated the five nominees on the following criteria:

- Demonstrates leadership and approaches to overcoming barriers;
- Demonstrates interactions with employees through treating all with dignity, respect, and concern for employee differences;
- Shows consideration for others when solving problems;
- Implements proactive measures

to prevent undesirable work environment and employment concerns.

- Implements programs and practices to support employee development;
- Promotes full participation and workplace accessibility through reasonable accommodation to enhance productivity; and
- Implements incentives and rewards appropriate behavior that enhances a positive work environment.

Nelson J. Miller is a role model for how to create and maintain a MWE that supports and encourages the contributions of all employees and is free of inappropriate and unlawful behavior. As an award recipient, Nelson received a plaque and a monetary award.

This years distinguished list of nominees included:

- John Lapointe**, Manager, Risk Analysis Section (AAR-424);
- Steven J. Reynolds**, Manager, Host Systems Support Branch (AOS-310);

**Lois M. Spagnuolo**, Supervisor, System Maintenance Section (ACT-412); and  
**Howard Kimpton**, Manager, Environmental Branch (ACT-640).

Congratulations to all the nominees for creating a hospitable and productive workplace!

## ROGATE LECTURE

On March 29, ACT-70's Community Outreach Program Manager **Carleen Genna-Stoltzfus** and the Airport and Aircraft Safety R&D Division's (AAR-400) Outreach Coordinator, **Rosanne Weiss**, sponsored a Resources Offered for Gifted and Talented Education (ROGATE) Program for grades six through eight.

Center airport and aircraft safety experts spoke on subjects that complemented the student's classroom curriculums. After a warm welcome by **Ron Esposito** (ACT-3), **Dr. Gordon Hayhoe** (AAR-410) spoke on airport pavement tests, **Allan Abramowitz** (AAR-430) gave insight into airplane crash tests, and **Gus Sarkos** (AAR-420) discussed improvements in aircraft fire safety.

All 115 children, from seven schools, intently enjoyed the day, expanding their knowledge base while having some fun! Thanks to the above participants, **Lana Haug** (ACT-70), and ACT-73's **Verna Artis**, **Bill Dawson**, **Dale Dingler**, **Annette Harrell**, **Art Z-Graphics**, and **Bob Marks**.



## A SAFETY MINUTE FROM THE SECURITY OFFICE, ENVIRONMENTAL BRANCH (ACT-640)

### Finger Food for Thought

They come in a set of five. Each member of the set is of a different size and shape, and has certain attributes that contribute to the efficiency of the entire set. Initially, each person is given two sets. When you use the two sets together you can get an awful lot accomplished. However, if you're missing just one of the five within a set you will find that the most routine things will become challenging. Therefore, it should be obvious that it is extremely important that you do not accidentally lose one of the members of either set!

The above description is "food for thought" when you are working with your hands. Your ten fingers perform a variety of functions each day. Missing just one can cause some major adjustments to your workday. It's estimated that in a given year there are at least half a million accidents, in which fingers are severed, crushed, mangled or burned.

Such a number (half a million) is astonishing considering the importance of your fingers in one's daily life. I guess the mentality that "such an accident couldn't happen to me" is still a mindset of many people. To reduce the statistics and change your mindset

take a few minutes to review the 10 rules of hand safety:

1. Beware of pinch points when working with moving parts.
2. Expect the unexpected - think ahead of what the job entails.
3. Inspect tools before you begin work.
4. Do not work on moving equipment.
5. Install machine guards and replace guards following routine equipment repairs.
6. Be careful when working with equipment that starts automatically.
7. De-energize electrical equipment prior to working on it.
8. Avoid touching lines or equipment that is hot.
9. Be mindful when closing doors, especially car doors.
10. If the work being performed requires gloves, use them.

In summary, consider these 10 rules as "Finger Food For Thought". Add a little seasoning and bit of common sense and you'll have a safety recipe that is finger lick-in good!

## COMPUTER BASED WEB TRAINING NOW AVAILABLE

### Would you like to improve your computer skills?

You can do so by taking Computer Based Training right at your desk. Courses such as C++ Programming; Setting Up a Website; LAN Fundamentals; and beginning and advanced Word, Excel, Access, and Power Point are available through the FAA's National Program Office for Computer Based Instruction. These courses are available to all authorized FAA government employees.

For authorization, the employee and supervisor must agree on the course(s) to be accomplished. This may be done by using the "Request for Training Form" provided at the website.

To view the courses available and to start the enrollment procedure, log onto the following website:

**<http://faawbt.jccbi.gov/cbtsys.htm>**

Questions should be directed to your administrative officer or training specialist.

## "TAKING OFF" AT THE HANGAR



ACT-70's Aviation Education Program, ACT-370's Aircraft/Avionics Branch, and the William Davies Middle School of Mays Landing recently hosted the 8th Annual TAKEOFF program in the Hangar. Twenty-five schools participated, with over 125 children, grades 7 through 12, in attendance.

The event's workshop topic was aeronautics and flight. The students were divided into unfamiliar groups from all grade levels. Mentors and teachers were assigned to every group, and then six flight challenges were presented to each. They were to choose three out of the six problems that all involved lift, drag, gravity, and thrust in an aircraft.

After close to five hours of research, design, and testing, a competition was held to prove the winner. For example, one of the challenges was "Brake the Egg."

The object was to design and construct an aircraft fuselage to demonstrate the ability to sustain a crash landing. The passenger, in this case, was an egg, and it had to withstand the 30-foot thrust at a 30-degree slope. Everyone involved had a wonderful day of learning, challenge, and fun.

**Carleen Genna-Stoltzfus**, Aviation Education Program Manager, would like to thank **Dr. Anne Harlan** for welcoming

**Dyson, Tim Hogan, Fred Karl, Theos McKinney, Ralph Pohl, Arthur Williams, and Phil Ingaham.** From ACT-360: **James D'Ottovi, Mike Magrogan, and Frank Lorge.** From AS&T: **Mary Gratz, Tim Smith, Phyllis Terlecky, and Earl Thomas.** Also: **Robert Heitsenrether (ACT-008), Louis Hodac (AOS-220), Cyndi Lampe (ACT-32), JoAnn Maser (Hi-Tech), Patty Naegele (AOS-600),**

**Barry Silverman** (Technautics), **Mike Greco** (AOS), **Joseph Tomaselli** (Brick High School), **AAR-423's Harry Webster, and Rosanne Weiss, Pete Sparacino (AAR-411), and Kevin Fehr (ACT-350).** From the Air National Guard: **MSGT Arnold Karp, TSGT Joseph Camillo,** and four members from the Civil Air Patrol lead by **CAPT Mary Ellen Sammons.**



the students, **Dot Buckanin** for presenting awards, ACT-370's **Armando Gaetano,** Vic Hudson of the Wm. Davies Middle School for their partnership efforts, **ALL OF ACT-73, ART-Z-Graphics, Wackenhut** for the daunting task of setting up and disbanding all materials, **Holly Baker,** and all mentors, judges, and support From ACT-370: **John Beres, Keith Biehl, Joseph Campbell, John**



## NEWS FROM AROUND THE CENTER

AAR-500 welcomes the following new employees:

**Dr. Josh Rubinstein** will be working with the Aviation Security Human Factors program on Initial Screener Computer Based Training programs, Threat Image Projection, the Screener Readiness Test, and developing a long-term research program. Josh, born and raised in South Brunswick, NJ, received his undergraduate degree from Swarthmore College. He earned a M.S. in cognitive psychology from the University of Illinois and a Ph.D. in experimental psychology from the University of Michigan. After graduate school, he did post-doctoral research at the University of California, Davis, in cognitive neuropsychology. Most of his graduate and post-doctoral research focused on attention and the executive control of behavior in normal and brain damaged subjects. Josh worked as a contractor with Federal Data Corporation for almost 2 years, before coming to the FAA.

**Dr. Melissa Dixon** is an engineering research psychologist in the Aviation Security Human Factors Program. She received a B.A. with distinction in Psychology from the University of Delaware. Melissa attended graduate school at the University of Virginia, where she studied cognitive psychology with an emphasis on psycholinguistics, human perception and performance, and virtual reality technology. She received a M.A. in psychology and a Ph.D. in psychology from the University of Virginia. In July of 1999, Melissa accepted a position as a human factors psychologist with Federal Data Corporation (FDC), a government contractor in Egg Harbor Township, NJ. During her employment at FDC, she conducted human factors research in aviation security.

**Nahid Jarrett** is an aviation security specialist who is helping to design a magazine model for explosives storage. She is also assisting in testing several x-ray units. Born in Brooklyn, NY, and raised in South

Jersey, Jarrett is an economics major at Hampton University with an emphasis in pre-law. She will be entering her sophomore year this fall. Nahid graduated from Washington Township High June 1999.



Front row, sitting left to right: **Carmen Colon** (AAR-430); **Graciela Torres** (ACT-620); **Mariana Alvarez** (AAR-520); **Valerie Carrasco** (ACT-411); and **Luzdevina Buelna** (ACT-610). Back, standing left to right: **Jose Perez-Torres** (Tech Center's Director of the NHCFAE); **Eliezer Rodriguez-Cosme** (ACT-520); **Uriel Contreras** (AAR-411); **Anne Harlan** (ACT-1); **Juan Garza** (AAR-424); **Ismael Cotte** (AAR-520); **Jesus A. Bonet** (ACT-230); **Jose A. Navarro** (ACT-350); **Enrique Lopez** (AOS-400); **Alberto Torres** (COOP Student with ACT-320); and **Anthony Rodriguez** (Tech Center's HEPM).

In a brief ceremony on Wednesday, June 7, **Dr. Anne Harlan** and members of her management team officially welcomed 12 summer interns who are working at the Center for a period of ten weeks. They are working in several divisions, including ACT, AOS, and AAR. They came from as far as California, Texas, and Puerto Rico. Please welcome them to the WJHTC and make them feel at home.

The Institute of Navigation (ION) has selected **Victor Wullschleger** (ACT-360) to receive the prestigious Early Achievement Award, which will be presented at a combined annual meeting of ION and the International Association of Institutes of Navigation World Congress (June 27, San Diego, CA). This award recognizes outstanding achievements made early in a career. Victor has had lead roles in flight tests of the Local Area Augmentation System

## CENTER NEWS CONT.

(LAAS), and in LAAS specification development. He is an active ION member, and a regular participant in ICAO meetings on satellite navigation system standards and recommended practices.

**Christopher Wolf** (ACT-360) participated in a week long meeting of RTCA Special Committee 181, Standards of Navigation, which completed work on two documents, "DO-236, Minimum Aviation System Performance Standards for Vertical Required Navigation Performance," and "Electronic Display of Navigation Data." Both will be forwarded to the RTCA Program Management Committee for formal adoption.

Center personnel participated in the 10th meeting of ICAO's general concept of separation review panel (Montreal, Canada). **Bennett Flax** (ACT-520) served as mathematical advisor to the U.S. member of the panel and contributed technical material that the panel adopted (amendments to ICAO Doc 9689, Manual on Airspace Planning Methodology for the Determination of Separation Minima). He also contributed a technical appendix to material submitted by the U.S.

member as an amendment to ICAO Annex 11 - Air Traffic Services - to allow application of a 30-nm lateral separation standard, and authored a working paper documenting the FAA's approach in applying a 50-nm lateral separation standard in the Pacific. Along with **Christine Gerhardt-Falk** (ACT-520), Flax also co-wrote a paper addressing the effect of Automatic Dependent Surveillance on the rate of gross navigational errors on an ATC route.

For the same ICAO meeting, **Dale Livingston** (ACT-520) authored a paper presenting the progress that is being made studying a new approach to applying the 10-minute longitudinal separation standard in the Pacific.

Below: Administrator Garvey poses with a group sponsored by the Federal Women's Program during a Women's History Month celebration. ACT-55's **Yolanda Holliday**, representing the Tech Center, is in the 2d row, far right.



## SECOND WORKSHOP ON RISK ANALYSIS AND SAFETY PERFORMANCE MEASUREMENT IN AVIATION

## WHO WANTS TO BE A GENIUS?

The Airport and Aircraft Safety R&D Division (AAR-400) and Rutgers University are sponsoring the second Workshop on Risk Analysis and Safety Performance Measurement in Aviation on August 22-24, 2000. The current focus of this effort is primarily knowledge-sharing of philosophies, approaches, models, and methodologies among Part 121 air carriers.

Effective risk assessment and risk management depend on the use of knowledge gained from system models; risk, hazard or threat analyses; accident or incident models; and vulnerability analyses. Safety Performance Measurement is also based on the safety critical functions, threats, and defenses identified in these models. Workshop participants review the concepts and methods associated with aviation system safety and risk analysis against the backdrop of the Safer Skies agenda. Models of system safety, such as the Reason Model, that include organizational, task/environment, and individual factors in accident analysis, will be presented and discussed.

Participants will also discuss the feasibility of developing safety performance measures to quantitatively monitor the factors, hazards, and defenses identified in various model. Methods of error management will be demonstrated as analytical tools that may be used to model and understand the accident causal chain.

In addition, the workshop will review risk analysis methods and their applications and links to aviation safety management. The various types of risks associated with individuals, the workplace, organizational processes and culture, and regulation will be distinguished and discussed. Methods for "organizational risk profiling" will be highlighted.

Managers, engineers, inspectors, quality assurance personnel, trainers, and anyone looking for methods and materials to enhance current risk analysis and safety performance measurement should attend this workshop, which will include both presentation and discussion sections on the following:

### Pre-Workshop Tutorials

- Fundamentals of Aviation Risk Modeling, Assessment, and Management
- Fundamentals of Aviation Safety Performance Measurement

### Workshop Topics

- Industry's Approach to Risk Analysis and Safety Performance Measurement
- FAA Risk Analysis Research Efforts
- Panel Discussions from the International Aviation, Military, and Manufacturer Communities
- Tours of Tech Center's testing facilities

For more information, see the following website: <http://www.rci.rutgers.edu/~jluxhoj/risk>

The Division of Gaming Enforcement and the Casino Control Commission recently held their annual Take Your Children to Work Day. The representatives from various career fields included a NJ State Trooper, a casino engineer, a FBI investigator, a lawyer, a security manager from a casino, and a supervisory computer scientist from the Tech Center. A strong emphasis was placed on the various career opportunities available in the South Jersey area.

**Dot Buckanin**, Manager, CNS Engineering and Test Division (ACT-300) presented an overview of the Center, emphasizing how the work we do makes aviation safer for everyone. She discussed the national airspace system and played a short news segment from ABC News on our recent technology success for Safe Flight 21 in the Ohio Valley. Dot was a big hit with the kids and their parents as well as employees of the Casino Control Commission, many of whom never knew that we did such important and interesting work. Dot had many questions and comments on her presentation, all good!!

After the presentations and a brief question and answer session, the young people were given an opportunity to guess the career field of each representative. The fun, career-themed quiz game was set up to mimic a popular television game show and was appropriately titled "Who Wants to be a Genius?"

## SOUTH JERSEY STUDENTS CELEBRATE NATIONAL TRANSPORTATION WEEK



Bay Head School: left to right, Diana Applegate - 1st place, 8th grade; Kristin Gillies - Honorable Mention, 8th grade.

The NAS Simulation Branch, (ACT-510) and the Aviation Education Program (ACT-70) sponsored their annual essay contest for

students in the sixth, seventh, and eighth grades in the greater South Jersey area again this year. The theme this year was "Transportation...getting you where you want to go safely."

Hundreds of local children responded with essays on the contest theme, which celebrates National Transportation Week. Fourteen students received either first, second or third place, or an

honorable mention. Each winning student received a beautiful plaque for his or her academic achievement. The plaques were presented to the students in their classrooms in front of their peers, teachers, and parents.

**Adam Greco**, Manager, NAS Simulation Branch, and **Carleen Genna-Stoltzfus**, Manager, Aviation Education Program, presented the plaques. Several employees from ACT-510 and ACT-70 judged the essays. This year's winning writers included:

### Eighth Grade

First Place--Diane Applegate, Bay Head School; Second Place--Frank LaSasso, Hammonton Middle School; Honorable Mention--Kristin Gillies, Bay Head School.

### Seventh Grade

First Place--Zorana Brown, Pleasant Tech Academy; Second Place--Megan Calabria, Hammonton Middle School; Third Place--Emily Prakash, Hammonton Middle School; Honorable Mention--Matthew Barrett, Northfield



Ohio Avenue School: left to right, **Carleen Genna-Stoltzfus**, Mr. Mack Darden, Cathy Nguyen - Honorable Mention, 7th grade, Hong Pham - Honorable Mention, 7th grade, and **Adam Greco**.

Community School; Hong Pham, Ohio Avenue School; Cathy Nguyen, Ohio Avenue School.

### Sixth Grade

First Place--Christina DeLillis, Jordan Avenue School; Second Place--Chanel Fernandez, Jordan Avenue School; Third Place--Atira Alexander, Jordan Avenue School; Honorable Mention--Vincent Acampora, Jordan Avenue School; Michael Polt, Jordan Avenue School.



Hammonton Middle School: back row, **Carleen Genna-Stoltzfus**, **Adam Greco**, Mr. Gene Miller; front row, Frank LaSasso - 2nd place, 8th grade; Megan Calabria - 2nd place, 7th grade; Emily Prakash - 3rd place, 7th grade.



Pleasant Tech Academy: left to right, **Adam Greco**, Asst. Principal Mrs. White, Mr. Putiri, Zorana Brown - 1st place, 7th grade.

## HEADQUARTERS HEADLINES

### **FAA Puts NAS Architecture**

**Data on the Internet.** In a key move to continue collaboration with aviation system users, on June 16 the FAA has put its National Airspace System (NAS) Architecture online. Last year, the FAA released its strategic plan to modernize the NAS. This plan, the NAS Architecture Version 4.0, was the result of the agency's intensive work with industry partners to address the growing demands in the aviation system.

The NAS Architecture projects 15 years into the future for NAS modernization and is balanced against anticipated future funding. Since its release, the NAS Architecture's comprehensive modernization strategy has been updated to reflect current funding profiles and priorities. The dynamic nature of the architecture is one of the reasons why the FAA established the NAS Architecture database.

The NAS Architecture data can be accessed through the Capability and Architecture Tool Suite, which includes a web browser interface (<http://www.nas-architecture.faa.gov>). Using the internet to share the latest NAS Architecture data is key to continued collaboration with aviation system users. A representative set of programmatic and technical data is contained in the architecture and is continually updated so that the database represents the best available data. The richness of the information will grow over time as more details on individual imple-

mentation steps for modernization are developed. The database was developed to identify the complexities and interrelationships of NAS components as a systems engineering tool. Multiple views of the information contained in the database are available to help those interested in aviation to understand the details of the NAS infrastructure.

**White House Press Briefing.** On June 13, Administrator Garvey spoke at a White House Press Briefing. In part she said, "The Senate Appropriations Transportation Subcommittee marked-up the Transportation Appropriations Bill this morning. Although FAA's capital accounts were appropriately funded, FAA's Operations account was cut about \$250 million below the President's request . . . this reduction could create substantial delays in a system already strained to meet the demands arising from the rapid growth in air travel . . . the Administration asked Congress for a \$77 million urgent supplemental for this year. It is included in the Senate Agriculture Appropriations bill, but it has not passed the Senate yet. Let me tell you what it means if we cannot get that money this year. We will not be able to hire 170 more safety inspectors and medical certification staff. The number of safety inspections will be cut 10,000 below last year's level. In addition, we will have to reduce maintenance for critical air traffic control systems which will result in

more frequent equipment outages, increased time to restore these outages, and greater air traffic delays during the busy summer travel season. The issue is broader than just the need for a supplemental. For FY 2001, the Administration has requested \$6.59 billion for FAA operations. During the past two years, FAA has faced a very tight budget for operations, and has lived within its budget by implementing a hiring freeze in many areas, putting off maintenance, deferring training, drawing down our stock of spare parts, and reducing the redundancies within our communications network."

### **New Equipment Helps FAA Reduce Weather Delays.**

On May 31, the FAA announced operational use of a new tool designed to help reduce delays at major airports in the northeastern part of the U.S. Installation of the Departure Spacing Program (DSP) is one of the first milestones in the Spring 2000 Initiative, announced in March by President Clinton and U.S. Transportation Secretary Rodney E. Slater. The aim of the initiative, part of the President's "people first" agenda, is to provide better service to airline customers by encouraging the FAA and the airline industry to keep passengers moving despite severe weather.

DSP is a coordination and planning tool that uses pertinent air traffic information from airports equipped with the system, along with other information from filed flight plans, to coordinate depar-

## HQ HEADLINES CONT.

tures by spacing aircraft more evenly. This allows the best use of existing capacity, expediting the flow of air traffic while minimizing delays. The tool has been in use at LaGuardia, Kennedy, Newark, and Philadelphia airport towers and in radar control facilities in the New York area since April 2000. The DSP enables air traffic controllers to work more efficiently with traffic management coordinators to better use existing capacity for departing aircraft. Using DSP, controllers can coordinate rerouting to avoid severe weather and reduce the need for voice communication between air traffic control facilities by providing flight plan information and reports.

In the future, this system will be expanded to allow the FAA Air Traffic Control System Command Center in Herndon, VA, to facilitate the flow of traffic into and out of all of the northeast U.S. airports to maximize use of available airspace. A future enhancement of DSP will include historical trend analysis. Computer Sciences Corporation developed the system.

### **FAA Finalizes Insulation**

**Replacement Rules.** On May 25, the FAA issued final rules ordering operators of 719 Boeing MD-80, MD-88, MD-90, DC-10, and MD-11 aircraft to replace insulation blankets covered with metalized Mylar. The agency proposed the rules last August to minimize the risk of fire spreading aboard these types of aircraft. The Airworthiness Directives require operators to determine whether their planes

have metalized Mylar-covered insulation materials and where, and then replace them with new insulation blankets within five years. Replacement materials must meet the FAA's new flame propagation standard, which is based on an American Society for Testing and Materials flammability standard.

The new test standard was developed by Tech Center fire safety engineers with input from world-renowned fire experts. The agency plans to issue a proposal for all new aircraft soon. While other insulation materials in the current U.S. fleet are safe, tests show that metalized Mylar falls far below the new test standard. The FAA continues to work closely with the international aviation community through the International Aircraft Materials Fire Test Working Group on the new test standard for aircraft insulation. In addition, the FAA and Boeing are studying procedures for flight crews to follow in the rare event of smoke in the airplane to make sure the procedures are correct and properly prioritized.

The FAA Flight Standards Service also plans to issue advisory information to operators to conduct special emphasis inspections of thermal acoustical insulation during general maintenance and inspections. This information bulletin will provide details on how to recognize contaminated insulation blankets that could pose an increased hazard to the airplane. The bulletin will be issued after formal coordination with union representatives.

**FAA Completes Deployment Of New Surveillance Radar.** On May 15, in a significant milestone in the modernization of the National Airspace System, the FAA announced completion of the final installation and acceptance of innovative air surveillance radar technology that will enhance air safety through improved position information and weather detection.

The Air Route Surveillance Radar (ARSR-4) replaces obsolete radar with all solid-state, long-range, three-dimensional radar providing aircraft position information to the FAA, Air Force, Navy, and Customs Service. The ARSR-4 also provides weather data to both the FAA and National Weather Service. The 12-year ARSR-4 program was a joint FAA/Department of Defense initiative.

The ARSR-4 provides several unique capabilities not found in other long-range radar. It can detect a one-square-meter object out to 250 nautical miles, a 50 nautical mile increase over previous long-range radar models. The square-meter target can even be detected through severe weather conditions including heavy ground and sea interference as well as large bird migrations. The superior target detection enhances the ability to identify hostile intruders and drug smugglers. It also improves weather detection by increasing weather processing from two to six levels. The improved weather information will increase controller and pilot awareness of their operating environments.

## AFTIL HOSTS INDIANAPOLIS CONTROL TOWER SITE EVALUATION

On May 31, representatives from the Indianapolis International Airport, ANI-440, Great Lakes Region, and Indianapolis Airport Traffic Control Tower (ATCT) gathered at the Airway Facilities Tower Integration Laboratory (AFTIC) to participate in an evaluation of two potential Indianapolis control tower sites. The AFTIL engineers built a scaled 3-dimensional computer model of the future Indianapolis International Airport including a new terminal building with two attached concourses, parking garages, a new parallel runway, new taxiways, and future parking aprons. The potential tower sites were located along the edge of the future airport terminal access road and offered similar views of the airport surface. However, due to the relative position of each tower site to the runway, the maximum allowable

heights of the towers differed by more than 80 feet.

The evaluation team was able to view their future airport from various angles and positions. To properly determine the control tower-to-runways sight line, a "simulated" camera (view port) was moved to the threshold of one of the runways and turned to see the control tower locations. Using this technique, the evaluation team could more easily compare the amount of runway surface being obscured by aircraft parked on the apron or by buildings that were more than one mile from the tower sites. This innovative technique proved very valuable in the overall tower site evaluation.

The evaluation team determined that each tower site provided an adequate view of the airfield in support of the air traffic control operations, but views to the

approach end of one runway were obstructed by an air cargo sorting facility and parking apron. The higher tower site had an advantage of providing an improved view of a proposed new parallel runway and would allow the airport to permit additional expansion between the parallel runways.

In addition to the tower siting effort, the AFTIL engineers created a control tower cab mockup designed to the specifications of ANI-440. The AFTIL support team revised this mockup to replicate various window mullion configurations and center island consoles.

The AFTIL staff is currently working on a photorealistic display and 3-D model for Oakland International Airport that is scheduled for presentation in July 2000.

### EARNINGS/LEAVE STATEMENTS ON

You can now see a modified version of your Statement of Earnings and Leave on the Employee Express website at [www.employeeexpress.gov](http://www.employeeexpress.gov). The current and previous two statements will be posted on Employee Express on the Friday prior to the upcoming pay week.

For more information on using Employee Express, contact the human resource office.

### HAVE YOU HEARD?

Don't forget to call in every Wednesday afternoon to hear the latest agency and industry news from VOICE, the agency's internal communications advocate.

**The phone number is: 1-877-888-4325**

# JERSEY SHORE SCIENCE FAIR

Again this year, the Tech Center community fully supported the annual Jersey Shore Science Fair (JSSF). What began in 1976 as a small, relatively informal event has grown over the years to involve more than 650 students, from 30 different schools, in 5 counties. Fair winners are provided with the opportunity to compete regionally and, maybe, internationally. Richard Stockton College hosted the 25th Annual JSSF on March 11, and many FAA employees gave generously of their time to support the Fair by acting as judges, advisors, and committee members. In addition to the list of judges below, ACT Community Outreach Manager **Carleen Genna-Stoltzfus** would like to thank **Cathy Jaggard**, Director of the JSSF, Steve Everts, **Carolyn Pokres** (ACT-70), **Lois Greis** (ACT-70), **Lana Haug** (ACT-70), and **Fred Snyder's** (AAR-200) two daughters.

<p>Lisa Arroyo Eva Baranowski Delores Beard David Berret Norma Boakes Steve Buckanin <b>Dorothy Buckanin</b> (ACT-300) Wendy Byar Barbara Byrne Bruce C. Byrne <b>Gerry Campbell</b> (ACT-52) Thomas Charlton <b>Annie B. Clark</b> (ACT-250) Dale Cook Lory Coursey Lucy Croneberger <b>Butch Dansby</b> (ACT-71) Joan Dansby Georgiana D'Auria Jennifer Dean Randi DeMartini Patricia Demko Linda Ducca Stephen Fischer MaryEllen Florence <b>Tom Flourney</b> (AAR-430) <b>Gary Frings</b> (AAR-431) Ithiael Fuller Joanne Fuller Ashu Gandhi <b>Sanjeev Gandhi</b> (AAR-422)</p>	<p>Joseph Gionfriddo Aileen Gonzales <b>Adam Greco</b> (ACT-510) Gordan Grguric' Roland Hagan Stacey Hagan <b>Eric Hoover</b> (ACT-223) <b>Donald Hurff</b> (CSC) Ariane Hutchins Elizabeth Ince <b>Ed Jaggard</b> (CSC) Charles Joseph Bess Kathrins Bess Kathrins Andrew Knox <b>Joseph Krupinski</b> (CSC) Kathleen Latella Francis Law Jung Lee <b>Kelly Leone</b> (AAR-510) David Levy <b>Richard Lyon</b> (AAR-423) <b>Ed Mack</b> (ACT-550) Pamela MacNeill <b>Theos McKinney</b> (ACT-370) Davine McWilliams Janet Mead <b>Christ Medina</b> (ACT-223) <b>Rodger Mingo</b> (ACT-1A) Donald Netz Chuck Nickles Patricia Nickles William O'Brien Jr.</p>	<p>Charles Olinda Glenn Palmer Ed Paul J. Richard Pelrine Jennifer Piccioth Michael Ramirez <b>John Richards</b> (SRC) <b>Gary Richey</b> (CSC) William Rochin Cindy Sabino Frank Saksa Annette Scherer Tony Schmitz Ron Schott <b>Danny Sims</b> (SRC) Kimberly Smitelli Linda Smith Brenda Solomon Debby Sommers <b>Joseph Sowers</b> (CSC) Connie Taylor Susan Van Nest <b>Nancy VanSuetendal</b> (ACT-540) Carroll Wagner Gerry Wagner William H. Walker Wendy Walsh <b>Richard Walters</b> (AAR-420) <b>Bob Warner</b> (ACT-4) <b>Rosanne Weiss</b> (AAR-423) Karen York</p>	<p><b>William J. Hughes</b> <b>Technical Center</b> <i>Intercom</i> Editor: Terry Kraus Contributors: <b>Stan Ciurczak</b> <b>Rodger Bawgus</b> <b>Therese Brennan</b> <b>Joan Carpenter</b> <b>Bill Dawson</b> <b>Genia Embrey</b> <b>Carleen Genna-Stoltzfus</b> <b>Adam Greco</b> <b>Annette Harrell</b> <b>Wanda Harris</b> <b>Lana Haug</b> <b>David Hess</b> <b>Cathy Jaggard</b> <b>Karen Jost</b> <b>Paul Lawrence</b> <b>Pat Lui</b> <b>Bob Marks</b> <b>Carol Martin</b> <b>Al Oswald</b> <b>Ernie Pappas</b> <b>Carolyn Pokres</b> <b>Maudie Powell</b> <b>Karen Stewart</b> <b>Rosanne Weiss</b> <b>Tom Woods</b> <b>Laurie Zaleski</b>  For any questions, comments, or ideas, please contact <i>Intercom's</i> editor at (202) 267-3854  The WJHTC <i>Intercom</i> is available on-line at: <a href="http://www.tc.faa.gov/intercom/intercom.htm">http://www.tc.faa.gov/intercom/intercom.htm</a></p>
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