

INTEGRATION

Describe how your Section integrates young professionals with the rest of the membership. (max 500 words)

RECRUITMENT AND RETENTION

Describe how your Section recruits and retains young professionals. (max 500 words)

No supporting Material uploaded for this section.

No supporting URLs uploaded for this section.

This page is not complete.

ST. LOUIS

YOUNG PROFESSIONAL

The **Young Professional Activity Award** is presented to sections that demonstrate excellence in planning and executing successful events that encourage the participation of young members in the AIAA and provide opportunities for leadership at the sectional, regional, and AIAA Standing Committee levels.

EVENTS

Date	Name	Speaker
15 Jul 04	The System Architecture of Sandstorm for the DARPA Grand Challenge	Phillip Koon
Speaker Affiliation:	DARPT	
Meeting Type:	Other	
If "Other", what type:	Evening, light refreshments	
Attendance:	28	
Description of Event:	Phillip Koon is a Boeing Engineer who worked on the Carnegie Mellon University's "Red Team" for the DARPA Grand Challenge. Phil has been providing the Red Team systems engineering and power system design services for the "Red Teams" vehicle. The DARPA Grand Challenge is a race of autonomous unmanned ground vehicle from Los Angeles to Las Vegas. Phil presented lesson learned in the rapid prototyping environment that Carnegie Mellon employed in the six months time frame to develop an autonomous vehicle. Soda and chips were provided along with free admission.	
Joint Sponsorship? With what group(s)?:	None	
Describe any publicity for the event:	Flyer mailed to all St. Louis AIAA members. Boeing electronic announcement in "Daily News". The meeting was also announced in AIAA St. Louis Section newsletter.	

Explain how this event supports Young Professionals:

Phillip's enthusiasm for the project was inspiring for any young professional to see the possibility of developing their skill and knowledge base to prepare them for the opportunity to become a member of such an exciting team.

Date	Name	Speaker
08 Sep 04	Creating Options and Opportunities as you Navigate your Career	Julie-Ellen Acosta
Speaker Affiliation:	Vice President of Boeing Phantom Works	
Meeting Type:	Dinner Meeting	
If "Other", what type:		
Attendance:	26	
Description of Event:	<p>Julie-Ellen Acosta shared some of her keys to success and provided a frank discussion about her experiences in management. This presentation was open to and free to the public. Julie described how to find success when working with teams. She emphasized the importance of communication. Each of us need to define what we expect to be success for ourselves by being honest with ourselves and knowing who we are. This is as important in our personal and family lives. She provided especially valuable information for those with family lives and how to work 24/7 mixing company and family business each day while keeping family very high in priority. Special arrangements were planned for non-U.S. visitors on Boeing property and maps were provided to coordinators at university campuses in the St. Louis area. Planning time is estimated at 20 hours that includes some planning location changes. Popcorn and cold soda was provided to attendees at no cost. A question answer (Q&A) session followed the presentation that lasted 30 minutes. Several attendees asked for a copy of the presentation material to be sent to them by Email. After the meeting, at least 3 more requests were made by people unable to attend. Attendees numbered 26, that includes 15 AIAA members and 12 students. This Presentation provided much useful information for Young Professionals and for persons interested in Career Enhancement. Most attendees were young (less than age 35), but at least 12 attendees were professionals older than age</p>	
Joint Sponsorship? With what group(s)?:	AIAA St. Louis Section Young Professionals	
Describe any publicity for the event:	<p>A flyer was sent to all major Boeing buildings, and major college campuses in the St. Louis area and Rolla, MO. The flyer was available on the St. Louis Section web site. The link to the web site with the flyer and brief description were advertised in daily Boeing News for St. Louis each day for 2 weeks prior to and leading up to the day of the event. Email was sent to 500 local AIAA members with the flyer and AIAA Section link, and by Email to all Boeing new hires for 2004 which number 350.</p>	
Explain how this event supports Young Professionals:	<p>Julie explained the kinds of training and skills needed to advance in management and to help you be successful in leading a team of aerospace employees. Her perspective reflected the need to improve, adjust and learn through each phase of your career. She provided sage advice for both the new and experienced professionals. Julie spoke of her experiences when she was a young professional and was able to relate to the young people, many of them students, in attendance holding their attention and engaging their interests.</p>	

Date	Name	Speaker
21 Sep 04	A Leadership Panel	Vazquez, Clayton, Martin, Park, Radasch, Berisford
Speaker Affiliation:	Boeing Executive Managers	
Meeting Type:	Joint Meeting	
If "Other", what type:		
Attendance:	120	
Description of Event:	<p>"A Leadership Panel: Strategies for Success" featured six Boeing managers presenting different subjects relating to young professional and career development. AIAA was a cosponsor of the event. Approximately 10 hours of preparation and coordination time were required to allow non-Boeing personnel to register their names and status of nationality in advance in order for security to clear them for attendance. Free food and drinks were provided in the Boeing building 33 cafeteria. Attendance was in excess of 120 people, including 26 female students from nearby colleges and at least 10 AIAA members. The AIAA display was set up and membership application cards were available, an AIAA Council member was available to talk to visitors and encourage them to join. More than 12 people expressed an interest in joining AIAA and becoming involved on committees. AIAA also networked with members of five or more organizations in hopes of cosponsoring for future events and activities. This panel event had a half hour Q&A session after all presentations, and the event was video-recorded and made available on CD's after the event and distributed to a number of interested people. The flyer for this event is available as attachment, Leadership Panel.pdf.</p>	

Joint Sponsorship? With what group(s)?:

This was a large collaborative event sponsored by AIAA St. Louis Section, Aerospace Support Diversity Council, Aerospace Support Employee Involvement, Amelia Earhart Society, Boeing Black Employee Association, Boeing Employees Hispanic Network, Shared Services Group Diversity Council, Boeing Women in Leadership

Describe any publicity for the event:

Posters in major Boeing Buildings, Boeing News daily 2 weeks prior up to event day, distribution through each organization listed in Joint Sponsorship above, AIAA Section college and Email distribution.

Explain how this event supports Young Professionals:

Six panelists spoke about leadership from diverse backgrounds and perspectives. Each speaker talked about the importance of ongoing mentoring relationships, graduate training in college, and other valuable sources of learning - much of which can be done on your own or without enrolling in a program. Several panelists offered to be mentors to anyone requesting assistance and provided other useful avenues from which help may be obtained.

Date	Name	Speaker
14 Oct 04	Emotions, Expectations, and Economics	Amy Sherrer
Speaker Affiliation:	a chartered financial consultant, CLU, ChFC, and Vice-President of Butler Associates Financial Planners, Inc	
Meeting Type:	Other	
If "Other", what type:	lecture	
Attendance:	25	
Description of Event:	<p>Amy Sherrer, a chartered financial consultant, CLU, ChFC, and Vice-President of Butler Associates Financial Planners, Inc. brought an aid and financial planning literature hand-outs to speak to 20 attendees, 6 AIAA members, at the Boeing Prologue Auditorium, titled, "Emotions, Expectations, and Economics." She discussed how emotions affect investment decisions, market expectations for 3 types of investors, lessons from the past 74 years of U.S. economic history, and investment tools and strategies to help fine-tune your financial plans. A 30 minute Q&A session after the presentation was used by people young and old. This presentation received several compliments from attendees and at least 12 hand-outs were provided to people after the event who were unable to attend. This was billed as a Young Professional event, however we had all ages in attendance and Q&A questions from people of near retirement age. Most attendees were of young professional age thus it provided young professional value as Amy had planned to address a young audience. Amy said after the meeting she felt fortunate to help us, complimented us on the excellent facilities from which she presented, and indicated an interest in returning to help us again. Response from attendees was very encouraging and several attendees came to later YP and CE events.</p>	
Joint Sponsorship? With what group(s)?:	Career Enhancement	
Describe any publicity for the event:	<p>A flyer was sent to all major Boeing buildings, and major college campuses in the St. Louis area and Rolla, MO. The flyer was available on the St. Louis Section web site. The link to the web site with the flyer and brief description were advertised in daily Boeing News for St. Louis each day for 2 weeks prior to and leading up to the day of the event. Email was sent to 500 local AIAA members with the flyer and AIAA Section link.</p>	
Explain how this event supports Young Professionals:	<p>Young Professionals have indicated by a recent local AIAA survey they need help with financial planning and consider this a high priority need that is important as they begin their career. Their success in financial planning is related to how early they have planned and executed their financial investments early in their career. Amy talked about these opportunities and demonstrated how experts in investment planning can help young professionals.</p>	

Date	Name	Speaker
09 Nov 04	Recent Boeing Experiences with Modern Design of Experiments	Bob Dowgwillo and Jeff Luner
Speaker Affiliation:		
Meeting Type:	Other	
If "Other", what type:	Presentation / Light Refreshment	
Attendance:	27	

Description of Event:

Mr. Luner discussed DOE Techniques to optimize a LEX Fence size and location to minimize the vertical tail buffet response. DOE was used to minimize the amount of time spent testing in a low speed wind tunnel to optimize the size and location of a buffet attenuation device to modify vortex flow impingement on the vertical tails of the F/A-18 Super Hornet. Mr. Dowgwillio discussed the use of Modern Design of Experiments to acquire surface static pressure data during the test of a subscale wind tunnel model in the NASA Langley 14' x 22' Low Speed Wind Tunnel. Soda and chips were provided along with free admission.

Joint Sponsorship? With what group(s)?:

Describe any publicity for the event:

Flyer mailed to all St. Louis AIAA members. Boeing electronic announcement in "Daily News". The meeting was also announced in AIAA St. Louis Section "News Letter".

Explain how this event supports Young Professionals:

Learning & Networking opportunities

Date	Name	Speaker
18 Nov 04	Legacy of Mr. Mac	Sandy McDonnell
Speaker Affiliation: Chairman Emeritus, McDonnell Douglas Corp.		
Meeting Type: Dinner Meeting		
If "Other", what type:		
Attendance: 75		
Description of Event:		
Boeing historian, Mr. Larry Merritt introduced Mr. McDonnell, after sharing a few of his own experiences working alongside Mr. Mac.		
Sandy McDonnell, chairman emeritus of the McDonnell Douglas Corp., shared many stories about his uncle, James S. McDonnell. Mr. Mac, as he was known to all his employees founded the McDonnell Aircraft Co. in 1939. Mr. Mac was an unusual fellow, demanding much from himself, his family and all of his employees - whom he considered family. AIAA assisted Sandy in converting family photos to digital images for a picture presentation to accompany the talk. The audience was rapt with nostalgia. We laughed, we cried - we all had a marvelous time! At the end of the presentation Karen Copper presented Sandy McDonnell with his AIAA 50 year membership pin. The evening's presentation was recorded and a DVD is available for members to borrow.		
Mr. S. McDonnell's book "This is Old Mac Calling All the Team – The Story of James S. McDonnell and McDonnell Douglas" was available at the meeting for purchase and autographing. We pre-ordered the books to ensure that a sufficient number of books were available. Eighty books were distributed that evening with more books ordered for later delivery		
Joint Sponsorship? With what group(s)?:		
Describe any publicity for the event:		
Flyers distributed to AIAA members and within Boeing. Notices were sent to the Boeing retiree club, SAGES. Announcements were placed in local on-line calendars.		
Explain how this event supports Young Professionals:		
Inspiration - this particular program afforded many young engineers the opportunity to meet many engineers who paved the way for them.		

Date	Name	Speaker
01 Dec 04	Career Development Panel	Krieger, Young, Cosner, Pinckert
Speaker Affiliation: Boeing Executive Management		
Meeting Type: Other		
If "Other", what type: Panel Discussion		
Attendance: 65		

Description of Event:

"A Career Development Panel" staffed by four leading Boeing St. Louis managers and Fellows addressed employee career development, mentor and other learning opportunities, leadership traits and lessons learned, "Choosing the Technical Career Path", and "Role of Technical Societies in your career." The widely-known panelist names at Boeing were Chief Engineer of Naval Systems, President of Phantom Works, a Senior Technical Fellow and Director of IDS for Technology, and Director of Design & Manufacturing, 3 with PhD's and a panelist and moderator with multiple Masters Degrees which drew a good crowd of 65 with at least 12 AIAA members in attendance. Following the introduction by the moderator and presentations, the panel addressed questions for over 30 minutes. This event was cosponsored by Young Professionals and Career Enhancement committees with announcements for a need for committee members, and invitation to AIAA active membership, and upcoming AIAA events. The discussion was not always serious, with some light-hearted entertainment intermixed in the well-planned presentations. At least 15 compliments were given to planners and presenters and at least 10 people unable to attend requested the presentation material. Preparation time was 30 hours for committee members and approximately 30 hours by assistants to directors who prepared each 15-20 minute presentation. The event was open to the public and sodas were provided free of charge.

Joint Sponsorship? With what group(s)?:

Young Professionals

Describe any publicity for the event:

A flyer was sent to all major Boeing buildings, and major college campuses in the St. Louis area and Rolla, MO. The flyer was available on the St. Louis Section web site. The link to the web site with the flyer and brief description were advertised in daily Boeing News for St. Louis each day for 2 weeks prior to and leading up to the day of the event. Email was sent to 500 local AIAA members with the flyer and AIAA Section link.

Explain how this event supports Young Professionals:

Each presentation underscored the need for training and planning each aspect of the career. Mentoring was described and the importance of job rotation was emphasized. Jim Young specifically discussed Career Enhancement and professional development and how Boeing provides opportunities for improvement - all of which is timely information for Young Professionals who need to be thinking about Career Enhancement opportunities early in their career. Ray Cosner provided detailed information helpful for deciding if an individual should take a technical or management career path. Ray showed that either direction can bring great success and a satisfying career. Dr. Krieger discussed how common sense we acquire in childhood is essential for creativity and motivation required to find success in leadership. Dr. Pinckert provided a clear representation of how professional organizations like AIAA provides great opportunities for advancement, meeting people, training, and many other value-added resources that active membership provides.

Date	Name	Speaker
02 Dec 04	Status of Recent Updates To The Boeing St. Louis Polysonic Wind Tunnel & Facility Tour	Bob Hilker

Speaker Affiliation:

Meeting Type: Field Trip

If "Other", what type:

Attendance: 20

Description of Event:

Mr. Hilker described the capabilities of the Boeing St. Louis Polysonic Wind Tunnel (PSWT) which is a Blow-Down wind tunnel that utilizes a compressor to pump-up a tank farm to provide the air supply. Bob described the tunnels operational Mach range as M=0.45 through M=5.6. The new control room and compressor system was described. The highlight of the meeting was a walking tour of the PSWT: control room, test section, tank farm and compressor room. Many attendees stated that they had worked at Boeing for many years and this was the first time they got to see the PSWT up close. Soda and chips were provided along with free admission.

Joint Sponsorship? With what group(s)?:

Describe any publicity for the event:

In addition to the flyers being posted on bulletin boards and in the AIAA Gateway newsletter, announcements were published, as example shown below, in the Boeing daily electronic news distributed via e-mail to all Boeing employees. AIAA members were also e-mailed notices of all section events.

Explain how this event supports Young Professionals:

Learning & Networking opportunities

Date	Name	Speaker
14 Dec 04	Women Engineers As Mentors	

Speaker Affiliation:

Meeting Type: Other
 If "Other", what type: Meet & Greet
 Attendance: 83

Description of Event:

Fifty seven female high school students in their junior or senior year were invited to an AIAA "Meet & Greet". Twenty-three of the attendees were students in Mrs. Aurelia Weil's "Introduction to Engineering" class. The students were from the Cor Jesu and Incarnate Word Academies. The students were required to interview the women engineers to learn about education decisions, why they chose engineering as a career and what career opportunities they were experiencing.

Twenty-two female engineers at Boeing volunteered to participate. Eight of these engineers are AIAA members. AIAA membership literature was given to the non-members and Educator Associate packages were given the the teachers who accompanied the students.

The students were distributed evenly among the engineers (no more than 3 students per engineer) and the dialog began. After an hour, the engineers moved to another group of students, so the students had the opportunity to learn of another engineers experiences.

The students and the engineers enjoyed the opportunity to discuss education and career decisions, gain advice, etc. This is an activity definitely worth repeating.

Cookies and soda/water were served.

Joint Sponsorship? With what group(s)?:

Describe any publicity for the event:

E-mail messages were sent to the math & science teachers at the two schools. AIAA members have daughters who attend the schools, so were familiar with the teachers.

Explain how this event supports Young Professionals:

This activity gave the young professionals the opportunity to guide an up and coming professional in making education and career choices. The act of mentoring can reinforce and reinvigorate a persons career decision.

Date	Name	Speaker
18 Jan 05	A Night of Neural Networks	Dale Pitt, Lawrence Pado, James Ramsey and Stephen Thaler

Speaker Affiliation:

Meeting Type: Other

If "Other", what type: After work / Light Refreshments

Attendance: 57

Description of Event:

The speakers made five short presentations (20 minutes) of their research project utilizing Neural Networks. Four of the presentation documented the Boeing St. Louis experiences with Neural Networks. The Boeing experiences included using the networks to predict aircraft flutter speeds and maneuver loads. Discussions of using neural networks for adaptive control were also presented. The last presentation was made by the founder of "Imagination Engines INC" and he discussed his development and implementation of a self training Neural Network. This meeting appealed to many non-traditional AIAA members and a large number of perspective members. Many people commented that they enjoyed the introduction/overview of this topic and would be contacting the various authors for more information. Soda and chips were provided along with free admission.

Joint Sponsorship? With what group(s)?:

none

Describe any publicity for the event:

In addition to the flyers being posted on bulletin boards and in the AIAA Gateway newsletter, announcements were published, as example shown below, in the Boeing daily electronic news distributed via e-mail to all Boeing employees. AIAA members were also e-mailed notices of all section events.

Explain how this event supports Young Professionals:

Learning & Networking opportunities

Date	Name	Speaker
------	------	---------

27 Jan 05

Shadow Craft - A World of Secret Flight

Scott Miller

Speaker Affiliation: AIAA Distinguished Lecturer

Meeting Type: Dinner Meeting

If "Other", what type:

Attendance: 115

Description of Event:

During the social hour, video presentations of student projects were on display.

Each sponsoring organization welcomed the audience and shared any upcoming event information for their group. A table with membership information and displays were set up for folks to partake.

Scott Miller presented his insights on Shadow Craft — A World of Secret Flight

A great deal of aircraft development in America has taken place in secrecy. The U-2, SR-71 Blackbird, B-2 Spirit Bomber, and F-117 Stealth Fighter are some now high-profile examples of once hidden efforts. If you believe the recent and rampant rumors, there are more secret aircraft currently hiding in the shadows.

The existence of these rumors, at minimum, provokes the public interest and generates lots of questions. For example, what goes on in "Area 51" and what specifically has happened or might now be happening in the secret or "black" world? What new technologies and missions are associated with the rumored planes, where are they built and based, and how many are operational? Is it actually possible to build a visually stealth airplane? Are some of the aircraft unmanned? Does the hypersonic vehicle popularly called "Aurora" really exist? There are obviously many questions, with elusive and interesting answers.

The presentation will summarize many of the rumors and review publicly available evidence that suggests the existence of secret aircraft projects. The viability of the rumors and evidence will be discussed and some additional ideas will be offered.

Everyone loves a mystery. Who knows what craft lurks in the shadows, hinting at an exciting world of flight?

Everyone enjoyed the presentation and many questions were asked.

Joint Sponsorship? With what group(s)?:

This dinner was a co-sponsorship with the AIAA St. Louis section and the student chapter at Parks College, and St. Louis sections of American Helicopter Society, Society of Automotive Engineers, American Society of Mechanical Engineers, and Experimental Aircraft Association

Describe any publicity for the event:

Flyers distributed to AIAA members and within Boeing. Notices were sent to the Boeing retiree club, SAGES. Announcements were placed in local on-line calendars.

Explain how this event supports Young Professionals:

Networking with a broad cross-section of engineering/technical persons.

Date	Name	Speaker
10 Feb 05	Resume Workshop	Andrea Boyd
Speaker Affiliation:	Boeing College Outreach	
Meeting Type:	Other	
If "Other", what type:	Workshop	
Attendance:	15	
Description of Event:	<p>A Resume Workshop: For All Levels of Your Career was hosted by AIAA's Young Professional and Career Enhancement committees and was facilitated by Dr. Allen Atkins, General Manager of Technology and University Relations in Phantom Works and Ms. Andrea Boyd, Recruiting Relationship Manager for The Boeing Company. Ms. Boyd has facilitated this workshop at over 10 different schools, as well as other career related workshops sponsored by student organizations and diversity affiliations. She has also held the role of Summer Intern and Co-op Coordinator for Boeing St. Louis, giving her tremendous insight into career development. In her 1 hour resume workshop, Ms. Boyd discussed the secrets of selling oneself to recruiters, how to use one's time at career fairs to full advantage, tips and helpful information about making the best of one's interview and helping attendees to develop outstanding resumes by sitting down with the attendees individually and reviewing and commenting on their resumes. Planning time is estimated at 10 hours which includes flyer development, communication and correspondence. Light snacks were provided for attendees. There were 15 attendees, mostly college students with two attendees currently working and looking for different positions in their company. The workshop ran over by approximately one hour due to the enormous response of attendees wanting Ms. Boyd to review and comment on their resumes.</p>	

Joint Sponsorship? With what group(s)?:

Career Enhancement

Describe any publicity for the event:

A flyer was sent to all major Boeing buildings, and major college campuses in the St. Louis area and Rolla, MO. The flyer was available on the St. Louis Section web site. The link to the web site with the flyer and brief description were advertised in daily Boeing News for St. Louis each day for 2 weeks prior to and leading up to the day of the event. Email was sent to 500 local AIAA members with the flyer and AIAA Section link.

Explain how this event supports Young Professionals:

This workshop was valuable to young professionals at any point in their career as they make adjustments and changes that provide new opportunities in new jobs. A resume and interview are key to being accepted in a new position as competition for most jobs is getting tougher. High technology jobs do not always mean the employers will take the first people qualified who come along. Interview and other communication skills were presented in this workshop with a focus on student needs.

Date	Name	Speaker
21 Feb 05	X-43 Hypersonic Flight Research Project	George Orton
Speaker Affiliation:	AIAA	
Meeting Type:	Other	
If "Other", what type:	After work / light refreshments	
Attendance:	75	
Description of Event:	Mr. Orton is the Boeing Phantom Works Program Manager for Hypersonic Design and Application. He described the X-43 program from its inception to its final flight at Mach 9.7. George described the vehicle design, the airframe thermal protection systems, the flight control system and the navigation systems. George was also able to show NASA videos that were cleared for public release. This meeting appealed to young AIAA members unfamiliar with Boeing hypersonic research and older AIAA members who were previously involved with the NASP project with Mr. Orton. Soda and chips were provided along with free admission.	

Joint Sponsorship? With what group(s)?:

none

Describe any publicity for the event:

The section programs and events were publicized to all members in the following manner:

Section Newsletter, Gateway News, mailed to members and available on our website, <http://www.me.wustl.edu/~aiaa/>

Flyer, mailed to members, posted on bulletin boards in the Boeing Company

Announcements posted in the daily Boeing News Now as calendar items or articles, (distributed to more than 15,000 employees)

E-mail notices with links to section web posting of flyer, all section flyers for the year are posted at <http://mesun4.wustl.edu/~aiaa/calendar0405.htm>

Section Web Calendar and "Upcoming Event" link on the home page, <http://www.me.wustl.edu/~aiaa/>

Section 2004-2005 calendar page, <http://www.me.wustl.edu/~aiaa/calendar0405.htm>

Explain how this event supports Young Professionals:

Networking and learning opportunity

Date	Name	Speaker
24 Feb 05	Future Space Transportation: Where Now?	Gene Austin
Speaker Affiliation:	AIAA Distinguished Lecturer	
Meeting Type:	Dinner Meeting	
If "Other", what type:		
Attendance:	25	

Description of Event:

Students made all the contacts with AIAA and Mr. Austin. They made all the dinner arrangements. The St. Louis section coordinated publicity, took reservations and attended the registration table.

Mr. Austin talks followed the abstract presented in the AIAA Distinguished Lecturers manual. It was thought provoking and lead to much give and take in the question and answer period.

A plaque was presented to Mr. Austin by both sponsoring groups.

Joint Sponsorship? With what group(s)?:

Joint sponsorship with student chapter at Washington University

Describe any publicity for the event:

Flyers distributed to AIAA members and within Boeing. Notices were sent to the Boeing retiree club, SAGES. Announcements were placed in local on-line calendars.

Explain how this event supports Young Professionals:

Optimism in the future employment of space exploration was a theme in the conversations. Great networking opportunity.

Date	Name	Speaker
22 Mar 05	Full Scale Structural Testing at Boeing St. Louis	Glenn Harbison

Speaker Affiliation:

Meeting Type: Other

If "Other", what type: Lecture and Lab Tour

Attendance: 26

Description of Event:

Mr. Glen Harbison, Group Manager – Structural Test for the Boeing Company, discussed the full scale testing of air vehicles. The presentation included an explanation of the development of the structural load cases represented by the wiffle tree. Video and photographs of the F-15 and F-18 undergoing destructive static testing were shown. The presentation also showed video of "Drop Test" testing aircraft landing gear. The presentation was culminated with a tour of the high bay area where testing was being conducted. Many AIAA members present for the meeting were first time attendees at the St. Louis section meetings. Soda and chips were provided along with free admission.

Joint Sponsorship? With what group(s)?:

None

Describe any publicity for the event:

The section programs and events were publicized to all members in the following manner:

Section Newsletter, Gateway News, mailed to members and available on our website, <http://www.me.wustl.edu/~aiaa/>

Flyer, mailed to members, posted on bulletin boards in the Boeing Company

Announcements posted in the daily Boeing News Now as calendar items or articles, (distributed to more than 15,000 employees)

E-mail notices with links to section web posting of flyer, all section flyers for the year are posted at <http://mesun4.wustl.edu/~aiaa/calendar0405.htm>

Section Web Calendar and "Upcoming Event" link on the home page, <http://www.me.wustl.edu/~aiaa/>

Section 2004-2005 calendar page, <http://www.me.wustl.edu/~aiaa/calendar0405.htm>

Explain how this event supports Young Professionals:

Networking and knowledge growth opportunity

Date	Name	Speaker
25 Mar 05	Leadership and the War on Terror	Ernie Wattam

Speaker Affiliation: Boeing Executive Management and AIAA member

Meeting Type: Lunch & Learn

If "Other", what type:

Attendance:

74

Description of Event:

Mr. Wattam drew on his experiences as a U.S. Navy officer, pilot and commander of fighter operations to share with people how important it is to be a good and effective leader in today's high technology environments. The combat experience and training he had and leadership principles are useful when your employees make mistakes and need direction. Special situations where leadership has great challenges overcoming the temptation to give-in when your people depend on you to do the right thing and make the best decisions as it effects them and your organization. He described actual situations where pilots dropped practice bombs without realizing the dangers of doing so outside the limits imposed for safety reasons. Good leadership will have the patience to find all the necessary factors needed from which to base your ever important decisions that affects the lives of others around you. In today's world where threats are ever present, we have even more responsibility than ever before, to be good leaders and do what is right and taking proper corrective action to prevent accidents in the future. This program was offered on 9 and 25 March at the Boeing facilities in St. Louis and St. Charles, respectively.

Joint Sponsorship? With what group(s)?:

Young Professionals, REACH

Describe any publicity for the event:

A flyer was sent to all major Boeing buildings, and major college campuses in the St. Louis area and Rolla, MO. The flyer was available on the St. Louis Section web site. The link to the web site with the flyer and brief description were advertised in daily Boeing News for St. Louis each day for 2 weeks prior to and leading up to the day of the event. Email was sent to 500 local AIAA members with the flyer and AIAA Section link.

Explain how this event supports Young Professionals:

At this program, valuable leadership and management skills was shared and discussed, useful information for technical and non-technical career paths. Examples were given that could easily be applied in a wide range of applications. Mr. Wattam provided an informal interchange format involving the audience, encouraging each person to participate and share their experiences and questions. His examples came from military experience and relate well to today's world of terrorist threats. In light of the many examples of unethical behavior among corporate leadership in the news today, the emphasis of the need for integrity in leadership is essential for career development. Many attendees expressed their appreciation and provided compliments for the speaker and arrangements. Snacks and cold drinks were provided free to the attendees. Attendees were able to network before and after the meeting. This meeting was timely, since news concerning the questionable ethical conduct of a Boeing leader was in the news. Mr. Wattam addressed the issue, making a profound impression on attendees who were in need of positive support.

Date	Name	Speaker
21 Apr 05	AIAA Senior Design Night - Student Design Forum	Students Project Presentations

Speaker Affiliation:

Meeting Type: Other

If "Other", what type: After work / Pizza

Attendance: 70

Description of Event:

Senior Design students from Engineering Universities in the Greater Metropolitan St. Louis area presented their senior design projects with poster presentations. Three universities were represented at the meeting: Parks College of St. Louis University, Washington University in St. Louis, and University of Missouri – Rolla. The attendance consisted of thirty-five students (some were student members of AIAA) and the rest were local AIAA members or perspective members. The meeting encouraged interaction among the different university design teams. The poster presentation allowed the AIAA members to mingle with the students and ask them questions about their design. All the design teams also brought hardware to display at their booths. MSC software provided Pizza, soda, salad and cookies for all attendees, which allowed for free admission. Many people thought this program was the highlight of the St. Louis AIAA Technical Specialist Meetings.

Joint Sponsorship? With what group(s)?:

None

Describe any publicity for the event:

The section programs and events were publicized to all members in the following manner:

Section Newsletter, Gateway News, mailed to members and available on our website, <http://www.me.wustl.edu/~aiaa/>

Flyer, mailed to members, posted on bulletin boards in the Boeing Company

Announcements posted in the daily Boeing News Now as calendar items or articles, (distributed to more than 15,000 employees)

E-mail notices with links to section web posting of flyer, all section flyers for the year are posted at <http://mesun4.wustl.edu/~aiaa/calendar0405.htm>

Section Web Calendar and "Upcoming Event" link on the home page, <http://www.me.wustl.edu/~aiaa/>

Section 2004-2005 calendar page, <http://www.me.wustl.edu/~aiaa/calendar0405.htm>

Explain how this event supports Young Professionals:

Networking and learning opportunity, the students presenting projects may be peers, competitive spirit ignited to excel

Date	Name	Speaker
24 Apr 05	Yes, We Can	Margaret Ringenberg
Speaker Affiliation:		AIAA Distinguished Lecturer
Meeting Type:		Dinner Meeting
If "Other", what type:		
Attendance:		24
Description of Event:		
<p>AIAA presented AIAA distinguished lecturer Margaret Ringenberg. The event was free for students and advertised to encourage the attendance of students. Mrs. Ringenberg shared her experiences during 64 years in the air. Her stories included; adventures and challenges she faced as a member Women Airforce Service Pilots, her experiences and insight as a pilot and flight instructor, who has logged over 40,000 hours since 1943 in both military and private aircraft., the excitement and challenges she faced in numerous air races around the world, and lastly her motivational thoughts on aiming high and achieving goals. Unfortunately, the attendance did not include children, but those adults in attendance listened like children at story time as Mrs. Ringenberg shared her remarkable life opportunities through aviation. See flyer at http://mesun4.wustl.edu/~aiaa/AIAApr05flyer.pdf</p>		
Joint Sponsorship? With what group(s)?:		
Boeing Women in Leadership		
Describe any publicity for the event:		
<p>In addition to the flyers being posted on bulletin boards and in the AIAA Gateway newsletter, announcements were published, as example shown below, in the Boeing daily electronic news distributed via e-mail to all Boeing employees. AIAA members were also e-mailed notices of all section events. The following advertisement paragraphs were extracted from the Boeing News Now St. Louis editions. In addition, announcements for all PCO events were included in local community calendars on the St. Louis Post Dispatch web, http://www.stltoday.com/stltoday/calendar/pickers.nsf/SS/Home-Calendar?OpenDocument&from=20050319&to=20050523 and the local television station KMOV's website at http://www.kmov.com/community/stlcalendar_frameset.htm (no specific examples shown, as the calendars do not show events prior to the current date)</p>		
Some examples of the internal Boeing announcements follow:		
AIAA and BWIL present AIAA Distinguished Lecturer Margaret Ringenberg: "Yes, We Can!?"		
<p>The American Institute of Aeronautics and Astronautics (AIAA) and Boeing Women in Leadership (BWIL) invite you to hear AIAA distinguished lecturer Margaret Ringenberg share her experiences during 64 years in the air. Her stories are sure to inspire young and not-so-young alike.</p>		
<p>The event will take place on Thursday, April 28, at 5 p.m. in Building 100 Auditorium . Dinner will begin at 5 p.m., and the program will begin at 6 p.m.</p>		
<p>We invite you to come hear her talk about:</p>		
<p>? The adventures and challenges that faced the pioneers of female aviation as Women Airforce Service Pilots.</p>		
<p>? Her experiences and insight as a pilot and flight instructor, who has logged over 40,000 hours since 1943 in both military and private aircraft.</p>		
<p>? The excitement and challenges she faced in numerous air races around the world.</p>		
<p>? Motivational thoughts on aiming high and achieving goals.</p>		
<p>Admission will include sandwiches, chips and drinks. Tickets must be purchased by Friday, April 22.</p>		
<p>For more information, see the flier. Or go to the AIAA St. Louis Section Web site and follow the links to the calendar.</p>		
Explain how this event supports Young Professionals:		
<p>Mrs. Ringenberg's story covered education, accepting opportunities, ever expanding knowledge and taking on new challenges bravely. A truly inspiring individual that any professional - young and old can learn from.</p>		

Date	Name	Speaker
07 May 05	Aerospace Trivia Night	Bob Dowgwillo
Speaker Affiliation:		

Meeting Type: Other
 If "Other", what type: Fund Raiser
 Attendance: 43

Description of Event:

Trivia Night - PCO Fundraiser

As far as we know, AIAA offers the only Aviation & Space Trivia Night. The trivia event was held in McMillan Cafe on the campus of Washington University. Mike Swartout, Education Chair, arranged for members of the Washington University AIAA Student Chapter to help set up tables and chairs for the event. Each trivia participant won an attendance prize, thanks to the generous donations from Boeing, NASA, AIAA, St. Louis Rams, USAA and others. The second place team donated their winnings back to the section to support precollege outreach activities.

Here are a few of the questions asked:

1. Wally Funk & Jerry Cox were associated with what early "manned" space program?
2. What aircraft was used to ferry James Bond's Aston Martin across the English Channel in "Dr. No"?
3. What is the name of the organization you could join if you survived an emergency bail out from a disabled aircraft?

Trivia Answers:

1. Project Mercury
2. Carvair
3. The Caterpillar Club was established in the early 1920's and is named for the silk worm, which produces the material used to make parachutes.

The trivia night garnered \$240 for 2005-06 precollege outreach activities

See flyer at <http://mesun4.wustl.edu/~aiaa/TriviaFlyer05.pdf>

Joint Sponsorship? With what group(s)?:

Student Chapter at Washington University/St. Louis - the student chapter arranged for the use of McMillan Cafe on campus at no charge. Students set up the tables and chairs for the event and also performed teardown afterwards. Their participation was essential in yielding a profitable event.

Describe any publicity for the event:

In addition to the flyers being posted on bulletin boards and in the AIAA Gateway newsletter, announcements were published, as example shown below, in the Boeing daily electronic news distributed via e-mail to all Boeing employees. AIAA members were also e-mailed notices of all section events. The following advertisement paragraphs were extracted from the Boeing News Now St. Louis editions. In addition, announcements for all PCO events were included in local community calendars on the St. Louis Post Dispatch web, <http://www.stltoday.com/stltoday/calendar/pickers.nsf/SS/Home-Calendar?OpenDocument&from=20050319&to=20050523> and the local television station KMOV's website at http://www.kmov.com/community/stlcalendar_frameset.htm

Explain how this event supports Young Professionals:

The trivia night event is a great social outing with many opportunities to meet and be amazed by the knowledge of the elder members! Challenges were launched from the younger member team to the older member teams from one category to the next. The elders excelled in the identification of antique aircraft, and the younger folks excelled in the popular music category. All in good fun! This environment offers an extension across the ages for developing a diverse networking group.

Date	Name	Speaker
19 May 05	Honors & Awards Banquet	Kevin Dolliole
Speaker Affiliation:	Dir. Lambert Int'l Airport	
Meeting Type:	Dinner Meeting	
If "Other", what type:		
Attendance:	45	

Description of Event:

The annual Honors & Awards banquet is a special night for our section. It is the most formal event of the calendar year. Many members choose to bring spouses to this dinner, to mix and mingle and get a glimpse of the activities surrounding our industry.

Two Young Professional Awards were presented. Dale Pitt presented Darin Haudrich his award and Chad Winkler received his award from Bill Bower. Each nominator shared with the audience the exemplary work the young men had performed leading to their nomination for this prestigious award.

The Lindbergh Award: In recognition of a distinguished contribution in applying aerospace technology to improving the quality of human life. This year's recipient was the USTRANSCOM at Scott Air Force Base. This unit of the military transports supplies to the services in 75% of the world and the medical unit transport wounded soldiers to appropriate locations for their best medical care. Brig. Gen. Tim Loftus accepted the award.

Technical Contribution: In recognition of an outstanding contribution to the advancement of the aerospace sciences in a technical discipline by a Section member or team of members. Michael Bland was honored with this award. Bill Getz presented the award after reading his nomination letter.

Section Service: In recognition of an outstanding contribution to the Section's activities by a member was presented to Trent Duff for his efforts in expanding the AIAA outreach to young members.

Tom Mroczkowski explained our role in judging at the Science Fair. The Science Fair winners were announced and acknowledged for their accomplishments.

We publicly recognize and acknowledge our council, committee members and all who have made this year a success for the section.

Our keynote speaker was Kevin Dolliole, the newly announced Director of Lambert International Airport. He shared the current status of the airport expansion, impact of the recent reduction of flights for American Airlines to the community, and the plans for the near future economic development that the airport expansion will facilitate.

Section Chair, Karen Copper, presented Vice Chair, Dale Pitt, with the traditional gavel plaque signifying a turning over of the section to the new council. Dale presented Karen with the national AIAA section chair certificate.

Joint Sponsorship? With what group(s)?:

Describe any publicity for the event:

In addition to the flyers being posted on bulletin boards and in the AIAA Gateway newsletter, announcements were published, as example shown below, in the Boeing daily electronic news distributed via e-mail to all Boeing employees. AIAA members were also e-mailed notices of all section events.

Explain how this event supports Young Professionals:

The public presentation of the Young Professional Award is acknowledgement of the accomplishments of a younger engineer. This presentation along with the reading of the nomination letter is an inspiration to other young professionals that they too can strive to receive this award.

Date	Name	Speaker
26 May 05	An Overview of Active Flow Control	Dr. Valdis Kibens
Speaker Affiliation:		
Meeting Type:	Other	
If "Other", what type:	after work / light refreshments	
Attendance:	12	
Description of Event:		
Dr. Kibens presented his recent AIAA technical paper that he had presented at the AIAA 2nd Annual Flow Control Conference. The presentation summarized Boeing's use of active flow control to improve the aerodynamic flows in various applications. These applications include the XV-15 hover download on the wing, control of hover jet acoustic noise, and improve the aerodynamic store release characteristics from weapon bays.		
Joint Sponsorship? With what group(s)?:		
None		

Describe any publicity for the event:

The section programs and events were publicized to all members in the following manner:

Section Newsletter, Gateway News, mailed to members and available on our website, <http://www.me.wustl.edu/~aiaa/>

Flyer, mailed to members, posted on bulletin boards in the Boeing Company

Announcements posted in the daily Boeing News Now as calendar items or articles, (distributed to more than 15,000 employees)

E-mail notices with links to section web posting of flyer, all section flyers for the year are posted at <http://mesun4.wustl.edu/~aiaa/calendar0405.htm>

Section Web Calendar and "Upcoming Event" link on the home page, <http://www.me.wustl.edu/~aiaa/>

Section 2004-2005 calendar page, <http://www.me.wustl.edu/~aiaa/calendar0405.htm>

Explain how this event supports Young Professionals:

Networking and learning opportunity

PROGRAMS AND EVENTS

Describe section programs or events specifically designed to benefit young professionals, or focused on young professional interests that are not shown above. (Include description, planning time, participation, any feedback received, news copy, publicity, and anything else required to describe the activity) (max 500 words)

The St. Louis Section Young Professional Committee sponsored seven events with the younger members in mind as the target audience. However, many of the programs and events organized by the Programs and Technical Specialist committees were beneficial to the young professionals as well. Each AIAA activity afforded the young engineers the opportunity to meet, learn and develop networking contacts with other engineers covering many disciplines and experiences. A link to a complete calendar and the publicity flyers for the St. Louis 2004-2005 activities is available at the URL below, <http://mesun4.wustl.edu/~aiaa/calendar0405.htm>

The planning time for each event was several hours and included coordination with the presenter, arrangements for the facility, coordinating information with the section's publicity, arrangements and attendance committee chairs.

The Young Professional committee and Career Enhancement committees met with the Boeing REACH Professional Development committee in January 2005 to discuss mutual objectives and develop upcoming events that AIAA and REACH could cosponsor. REACH is a program designed for new Boeing employees. REACH offers opportunities for networking, mentoring, serving the St. Louis community and socializing. REACH has a survey tool used for predicting turnout at events and tracks the respondent's membership in various organizations. This provided valuable information about our target audience in real time that was shared with presenters.

Promotional flyers for all events may be seen at the URL noted below.

DEVELOPMENT

Describe how your Section recognizes and encourages professional development of young professionals. (max 500 words)

Young Professionals are encouraged to participate on and lead St. Louis Section committees. They are invited to a wide variety of events sponsored by the section, including a number that are within their area of interest, as indicated by a local survey given to 30 Boeing employees and surveys provided by other local organizations in the St. Louis area. These surveys provided valuable information that reflected where and when attendees preferred programs be held, career subject areas and personal needs. The surveys indicated a strong interest in leadership, financial planning, and technical vs. management career paths. This timely information was carefully considered by the YP chair and discussed at the St. Louis Section Council meetings. The section YP programs were tailored to this survey. A copy of the survey letter is attached, [YPSurvey.pdf](#).

As a participant of the Career Panel, Dick Pinckert shared how he felt being a member of AIAA has benefitted his career. His presentation is attached.

INTEGRATION

Describe how your Section integrates young professionals with the rest of the membership. (max 500 words)

Young Professionals are encouraged to socialize and network with others at the section activities. Our more senior members are encouraged to make an effort to greet new attendees, introduce themselves and invite the person to join AIAA or if already a member, become active. In addition, our more senior members are encouraged to attend the programs geared toward the younger engineers to provide networking and mentoring guidance.

At each YP event, the YP chair welcomed all attendees, defined Young Professionals, and explained how AIAA has a special interest in helping the young engineer develop their career. The attendees were all invited to visit the membership table where AIAA newsletters, membership forms and section event calendars were available.

To broaden our outreach to young engineers, our section sought co-sponsorship with several other organizations with mutual YP goals. Cooperation with these organizations had a focus on young professional needs, career enhancement and professional development goals for the younger professionals. Co-sponsoring offers each organization the opportunity to reach more people to ensure a larger attendance, as well as distributing costs among the groups.

A "sister societies" page was added to our AIAA St. Louis Section web site listing links to the web sites and a calendar of events offered by other related professional organizations. In reciprocity, many of these organizations added a link to our AIAA section page and included our events in their calendar.

RECRUITMENT AND RETENTION

Describe how your Section recruits and retains young professionals. (max 500 words)

Jim Young, Vice President of Engineering at the Boeing Company in St. Louis, supported our request to include AIAA information and membership materials in all engineering new hire orientation packages. He also posted a letter on his web endorsing membership in AIAA. The letter, Jim Young.pdf, is attached.

Committee chairpersons for CE and Strategy met with Ernie Wattam, Director of IDS Electronic Systems in St. Louis, to discuss AIAA active membership and events being planned. Ernie joined AIAA as a result of this meeting. He discussed AIAA with his managers and encouraged them to join AIAA and encourage their reports to consider AIAA or other professional organization to enhance their professional development.

Each section event had a council member welcome the audience and invite non-members to join AIAA and AIAA members to become involved in one of the local or national committees. An AIAA tabletop membership display was presented at each event with membership forms, newsletters, program flyers and a section summary of upcoming AIAA events.

Uploaded Files:

flyer.pdf

[VIEW >](#)

Jim Young.pdf

[VIEW >](#)

YPSurvey.pdf

[VIEW >](#)

Leadership Panel.pdf

[VIEW >](#)

Pinckert Presentation.pdf

[VIEW >](#)

URL Links

<http://mesun4.wustl.edu/~aiaa/calendar0405.htm>

[VIEW >](#)

This page is complete.