



Ohio Aerospace and Aviation Technology Committee May 11, 2016 – Minutes

Statehouse Room 017

- Chairman Perales called the meeting of the Ohio Aerospace and Aviation Technology Committee (OAATC) to order at 10:06 AM.
- Chairman Perales thanked committee members and the audience for volunteering their time to attend the OAATC meeting.
- Chairman Perales reiterated this meeting is scheduled for 10:00 am – 12:00 noon and that the meeting will conclude at noon to accommodate the volunteers' schedules.
- Chairman Perales asked committee members and audience to introduce themselves including their affiliation.
- Chairman Perales stated that due to a full agenda this meeting will veer from the published agenda to accommodate schedules and to respect everyone's time.
- Chairman Perales mentioned the attendance of Andy Swaim, former Legislative Aide, due to new Legislative Aide, Brent Rossman not being able to attend. Intern, Kareem Amr, will act as Aide for today's meeting.
- Chairman Perales introduced C.D. Moore (National Aviation Heritage Alliance).
- Mr. Moore thanked Chairman Perales and the Committee for the opportunity to present the Grand Opening Regional Working Group, a grand opportunity to promote Ohio and the Dayton region.
 - The grand opening of the 4th Hanger at the National Museum of the United States Air Force is scheduled for June 8, 2016 with the grand opening weekend scheduled for June 11-12, 2016.
 - Mr. Moore mentioned the mission of the Grand Opening Regional Working Group:
 - Support the USAF and its aviation heritage.
 - Increase visitors to the National Museum of the United States Air Force.
 - Encourage visitors to explore the Dayton region and all of Ohio.
 - Efforts represent the *first-time* community organizations that joined together to promote the opening of the new building at the Museum.
 - Mr. Moore mentioned the participants of this effort (please refer to distributed slide presentation). Some of the participants are not associated with aviation, but are excited about the USAF Museum.
 - Mr. Moore encourages people to explore and visit the USAF Museum, the Dayton region and all of Ohio while visiting other attractions in the state. 2015 attendee figures:
 - National Museum of the US Air Force – 1 million visitors.
 - Kings Island and Cedar Point – 3.2 million visitors each.
 - Mr. Moore reiterated the USAF Museum has free parking and free admission, showcases the rich heritage of aviation, and although the USAF Museum did not receive a Space

- Shuttle, the USAF Museum has a training module enabling visitors to experience what it is like to be in a Space Shuttle.
- Mr. Moore mentioned STEM Learning Nodes:
 - The USAF Museum offers diverse learning experiences to a full range of audience.
 - Will accommodate student-centered, technology-enhanced active learning through hands-on programs, demonstrations and lectures, as well as extensions of the exhibit experience.
 - All funds were raised through the Air Force Museum Foundation through private donations.
 - Mr. Moore shared the economic impact the USAF Museum has on the Dayton region and the impact of increased visitors to the area.
 - Mr. Moore mentioned the advertising efforts associated with the Grand Opening led by AF Museum Foundation with support from Tourism Ohio, CVBs and NAHA.
 - Mr. Moore mentioned other significant upcoming opportunities to the Dayton region:
 - Inaugural 2016 Presidential Debate at WSU in September.
 - The Wright Brothers HBO mini-series led by Tom Hanks.
 - Mr. Moore stated “what we can do”:
 - Promote the USAF Museum in publications and communications (Grand Opening weekend and beyond).
 - Provide a point of contact for social media activities.
 - Identify opportunities to make this presentation.
 - Mr. Moore presented contacts to obtain more information.
 - National Museum of the United States Air Force, Public Affairs Division, NMUSAF.MUP@US.AF.MIL
 - Regional Working Group, Tony Schulimbrene (937) 475-7627, AFS@AVIATIONHERITAGEAREA.ORG
 - Chairman Perales asked if there were questions or comments for Mr. Moore concerning his presentation.
 - Mr. Mike Heil mentioned another important event for Ohio is the Republican National Convention in Cleveland, July 18-21, 2016.
 - Chairman Perales introduced Ms. Colleen Ryan, former Commander at the Wright-Patterson Air Force base, to discuss the Ohio Federal Military Jobs Commission (OFMJC) Final Report (please refer to distributed slide presentation).
 - Ms. Ryan mentioned the Vectren Air Show is June 18-19, 2016.
 - Ms. Ryan addressed the agenda for OFMJC presentation:
 - Legislative Task
 - Develop and maintain an on-going strategy for retention and growth of federal-military agencies and missions and associated private sector jobs in the state of Ohio.
 - Such a strategy did not exist before this commission. There are 30 or more US states which have extensive strategies around their military assets. Ohio did not until the OFMJC was formed.
 - Commission Background
 - Legislation passed in September 2014 with monthly meetings beginning in November 2014.
 - Initial product delivered to state by Commissioners in April 2015; final report submitted to state in December 2015.
 - Commissioners
 - Governor, Senate and House appointed Commissioners
 - Chairman Perales mentioned the Commissioners are highly qualified in the areas for which they were appointed.

- Ms. Ryan mentioned the state-wide representation to speak on behalf of all state constituents
 - Chapter 1 – Facilities and Installations
 - Look at facilities and installations to review their strengths, weaknesses and what needs to be done to protect them from future BRAC or down-sizing. How to attract growth to those installations.
 - Number 1 recommendation: Establish a Facilities Executive Director who works with the Ohio Adjutant General.
 - To review other recommendations, please refer to distributed slide presentation.
 - Chapter 2 – Research and Development
 - Mr. Dennis Andersh will present the successes from the research network.
 - Chapter 3 – Small Business
 - Develop a connection with small businesses and an educational outreach to educate small businesses on federal contracting opportunities.
 - Chapter 4 – Workforce
 - Link education, job training and placement with federal installations and private sector contractors seeking workforce placement.
 - Attract veterans to stay in Ohio, bring more people to work in federal installations.
 - Retaining, retraining, recruiting veterans to Ohio.
 - For workforce needs in Ohio, please refer to distributed slide presentation.
 - Chapter 5 – Structure and Plan Next Steps
 - Budget Requirements
 - Ms. Ryan mentioned there are funds for the previously mentioned Executive Director position. Although, at this time no action has been taken.
 - Summary
 - The OJMJC report may be viewed at <http://ong.ohio.gov/OFMJC/011516-CommissionReport.pdf>
 - At this time, the report and recommendations are not being addressed except for Research and Development which Mr. Dennis Andersh will address.
- Ms. Ryan shared a letter dated April 12, 2016 from the Deputy Secretary of Defense to the Chairman of the Committee and Arms Services.
 - Ms. Ryan stated that from this letter there will be another BRAC and if Ohio doesn't get serious about protecting our military installations, we will lose.
- Ms. Ryan mentioned Representative Perales and the OAATC can have an impact on the OFMJC report. She mentioned the Speaker is putting together another committee to take recommendations and put into action.
- Chairman Perales made a note that he will check on the status of the Executive Director position.
- Chairman Perales mentioned that the slides of this presentation will be posted on the OAATC website to share with organizations to move communication to as many individuals as possible.
- Chairman Perales asked for questions or comments from the group.
- Mr. Vincent Russo mentioned one of the recommendations of the OAATC Workforce and Development workgroup is to establish a business round table lead by senior leaders of big businesses in aerospace. Mr. Russo asked Ms. Ryan if there is a need for a leadership lead organization.
- Ms. Ryan stated there are leaders in the portion which Mr. Andersh will address.
- Chairman Perales thanked Ms. Ryan for her presentation.
- Chairman Perales thanked the international individuals attending the meeting who will see how Ohio legislative committees work.

- Chairman Perales introduced Mr. Dennis Andersh (Wright State Applied Research Corp./Wright State Research Institute) and Mr. Martin Kress (Ohio State University).
- Mr. Kress reminded the group that the Ohio Federal Military Jobs Commission was created to be better equipped when BRAC comes around.
- Mr. Kress mentioned the Research & Development cannot be the legacy of OFMJC.
- Mr. Kress mentioned there is no state support for requirements at major installations by integrating our universities.
- Mr. Kress mentioned the support from JobsOhio, Third Frontier, AFRL, NASA Glenn, the Navy and NASIC is phenomenal.
- Chairman Perales mentioned this OAATC meeting is during a session day when Legislative colleagues are able to attend.
- Chairman Perales asked Legislators to introduce themselves:
 - Senator Bill Beagle (5th District)
 - Senator Joe Uecker (14th District)
 - Representative Sean O'Brien (63rd District)
 - Representative Nan Baker (16th District)
- Chairman Perales asked Mr. Dennis Andersh to continue the OFMJC presentation.
- Mr. Andersh stated the AFRL, NASA Glenn, NASIC and the Naval Medical Research Unit have been actively engaged throughout entire OFMJC process with recommendations for the next 10 – 15 years.
- Mr. Andersh stated the focus is on Applied Research to create industry jobs to better support WPAFB, NASA Glenn and industry in Ohio.
- Mr. Andersh mentioned the creation of 6 Centers of Excellence of which only 4 received awards through Round 1.
- Mr. Andersh mentioned the creation of the Commercialization and Workforce Development Support Team with Clark State University and Lorain County Community College.
- Mr. Andersh mentioned the existence of an Executive Review Board and Technical Review Council with members throughout the state. The Committee is looking for additional industry individuals to be on these boards/councils with next review scheduled for June 2016.
- Mr. Kress mentioned the importance of the Wright State Applied Research Corp. (WSARC) for producing RFPs, white papers, proposals, and evaluation processes.
- Mr. Andersh gave an update on the OFRN funding allocation (please refer to distributed slide presentation).
- Mr. Kress mentioned interest with FAA and DARPA (Defense Advanced Research Project Agency, a national based firm).
- Mr. Andersh discussed Round 1 – Technical Awardees with collaboration between universities.
- Mr. Andersh discussed Round 2.
 - Completed a technical review committee evaluation, requested proposals from 13 projects across the state using review process similar to DARPA.
 - Selected white papers/projects with each Center of Excellence (CoE) receiving a project.
 - RFP is ready to receive full proposals.
 - Focus is workforce development, job creation, commercialization and research sources throughout the country.
- Mr. Kress mentioned they are near \$100M in new proposals formulated by the team.
- Chairman Perales thanked Mr. Andersh and Mr. Kress for their time and presentation.
- Chairman Perales asked for questions and comments.
- Chairman Perales recognized the arrival of students from the Dayton STEM program.

- Chairman Perales called Therese Griebel (NASA Glenn) to the podium to address one of the objectives of OAATC (spreading the word about aviation and aerospace, networking and hold the OAATC meeting at other locations).
- Ms. Griebel stated on behalf of Janet Kavandi, NASA Glenn's Research Center Director, an invitation to OAATC to hold a field meeting at NASA Glenn on Thursday, June 23, 2016 at the 400-person capacity Mission Integration Center. Before or following the meeting, OAATC committee members will have opportunity to have lunch with Dr. Kavandi and members from the center senior leadership team and tour the center's world-class facilities.
- Chairman Perales thanked Ms. Griebel and NASA Glenn for this opportunity for an open meeting of OAATC. For those unable to attend there will be video capabilities to as part of the meeting.
- Ms. Griebel mentioned 3 other NASA Glenn exciting events:
 - May 24 – Technology Day
 - May 21–22 – Open House to celebrate 75th year of NASA Glenn Center
 - June 11–12 – Open House for Plumbrook Station in Sandusky
- Chairman Perales mentioned May 24, 2016 event with Brian Wynne, President and CEO of Association of Unmanned Vehicle Systems International (AUVSI). This event is for Legislative colleagues to understand what can be done for Ohio to accommodate and capture impact of UAVs.
 - Ohio State University will host Mr. Wynne at the Blackwell Hotel on May 24, 2016 (please refer to the OAATC website for details).
- Chairman Perales introduced the OAATC Workgroup updates.
- Outreach and Branding presented by Mr. Tony Bailey, newly appointed lead
 - Recommendation 1 – facilitate an OAATC group meeting to:
 - clearly define and document OAATC goals
 - Identify initial target audiences for each goal
 - Begin cataloging positive messages
 - Identify specific projects for action
 - Recommendation 2 – create a full time position of OAATC Director of Marketing
 - Actions:
 - outline a marketing campaign for an opportunity as an example of what could and should be done
 - Put Wright Flyer on state seal
 - Establish an Ohio Hall of Fame in Columbus to recognize individuals and organizations that have excelled through an annual enshrinement event and use of the facility for education, motivation and tourist attraction
 - Attract aerospace companies to Ohio
- Chairman Perales asked for questions or comments pertaining to the Outreach and Branding Workgroup presentation
- Chairman Perales discussed the 5 workgroups for OAATC: Outreach and Branding, Workforce Development, Technology Development, Industry Support, and Installations Support
- Chairman Perales mentioned the opening for an OAATC committee member which requires at least 4 legislators present to proceed
- State Senator, Joe Uecker introduced himself. Senator Uecker is replacing Senator Chris Widener.
- 20 applications received to fill the open membership position. Chairman Perales mentioned those applications will be kept on file in the event of another vacant position. Legislative committee members reviewed all 20 applications.
- Chairman Perales asked for nominations.

- Representative Sean O'Brien nominated Carlos Grodsinsky, Chief Operating Office and Senior Vice President of Technology, ZIN Technologies and Chair of Ohio Aerospace & Aviation Council, to fill position.
- Senator Joe Uecker seconded the nomination.
- Vote called for and unanimously approved and nomination closed.
- Chairman Perales asked for formal nominations.
- Representative Sean O'Brien formally nominated Carlos Grodsinsky, Chief Operating Office and Senior Vice President of Technology, ZIN Technologies and Chair of Ohio Aerospace & Aviation Council, to fill position.
- Senator Bill Beagle seconded the nomination.
- Vote called for and unanimously approved and nomination closed.
- Mr. Grodsinsky formally appointed as OAATC member.
- Chairman Perales stated the importance of a state-wide organization.
- Chairman Perales thanked the legislative members for their participation.
- Chairman Perales introduced Mr. Vincent Russo, OAATC Workforce Development workgroup lead.
- Mr. Russo shared the workgroup's 3 recommendations:
 - Create an industry-lead Ohio Aerospace and Aviation Business Roundtable.
 - Develop and implement "targeted" workforce development activities among Aerospace and Aviation industries and their nearby colleges and high schools.
 - Develop a relationship between the state and Project Lead The Way (PLTW) that would lead to increased interest in STEM careers related to Aerospace and Aviation.
- Mr. Russo introduced Mr. William White, PLTW Midwest Region Vice President
- Mr. White stated the background and beginning of PLTW
 - non-profit K-12 organization began in 1997 with 8 Science and Math teachers in upstate New York
 - currently in all 50 states in over 10,000 schools – rural, remote, urban, inner city, private
 - attracts kids to learn that education is fun and "cool"
 - Aerospace module is in 1st, 3rd, and 5th grade
 - Aerospace Engineering (PLTW Engineering) - 17 schools
 - Flight and Space (PLTW Gateway) – 23 schools
 - Stability and Motion: Science of Flight (3rd grade module from PLTW Launch) – 40 schools
 - PLTW was in Ohio budget but removed in 2010. Need to get PLTW back into budget.
 - Exposure is the key
 - Kettering Fairmont High School PLTW designed an **airplane oil cap remover** in their Engineering Design and Development course. This design received a patent and the group will donate funds received from patent to Fairmont High School to PLTW program.
 - There are 10,000 jobs annually in Ohio in aerospace. We need to interest our children toward these programs.
- Mr. Russo mentioned the workgroup's recommendation for the state to re-enter PLTW into the state budget. PLTW Aerospace program is currently in 11 schools but needs to be in 600 schools where it will cost \$10k - \$12k per school.
- Chairman Perales stated this is an excellent program and that there is no need to recreate programs that are already out there.
- Chairman Perales mentioned that Mr. White has met with the Finance Chair and the Higher Ed Chair.
- Chairman Perales asked Mr. White to share his background with the STEM students.
- Chairman Perales asked STEM students if they had any questions or comments.

- Chairman Perales introduced Paul Orkwis, Technology Development workgroup lead.
- Mr. Orkwis gave the workgroup update:
 - Ohio “Virtual” Research Collaborative (OVRC).
 - Don’t step over what is already being done.
 - Coordinate an academic discussion of barriers to collaboration, possibly through the Ohio Engineering Dean’s Council.
 - Working groups lead meeting finds similar goals throughout the OAATC.
- Chairman Perales thanked Mr. Orkwis for the workgroup update and asked for questions or comments.
- Chairman Perales introduced the Industry Support workgroup lead, Mr. Tony Bailey
- Mr. Bailey shared the Industry Support Progress:
 - Continue to work to advance the bill drafted for Aviation Tax Exemption Initiatives
 - Aircraft sales taxed “Fly-away tax” – 32 other states do not tax sale or mechanics of aircraft. This is costing Ohio millions of dollars in revenue yet, does not cost the state anything to implement.
 - Fully developed tax issue – tax all sales not just those who fly-in.
 - Continue to discuss with Aviation product manufacturers to see how we can help foster growth in the state.
- Mr. Bailey shared the Industry Support concerns:
 - The FAA Reauthorization bill – H.R. 4441 – Aviation Innovation, Reform and Reauthorization Act of 2016 was passed by Congress. Mr. Bailey mentioned that the committee is trying to understand the impact to our industry and this focus group specifically.
- Chairman Perales thanked Mr. Bailey for the update.
- Chairman Perales introduced Mr. Mike Heil, Installations Support workgroup.
- Mr. Heil addressed the Installations Support workgroup objectives:
 - Identify recommendations on how to coordinate local and regional efforts focused on supporting Active/Guard/Reserve/Research installations in upcoming or potential force structure actions.
 - Identify economic or regulatory recommendations for the committee that would enhance Ohio businesses and suppliers to state and federal installations to better posture those installations during force structure evaluations.
 - Identify specific workforce related initiatives that federal installations could benefit from and recommend to the committee how to implement them.
- Mr. Heil mentioned the recommendation that OAATC offer expertise to the new Executive Director called for by the OFMJC report to work objective #1 above.
- Chairman Perales mentioned that \$5m is in budget for BRAC installation, bases and federal installations.
- Ms. Ryan mentioned the job description for an OFMJC Executive Director was given to the Governor earlier in 2016. OFMJC has money set aside to cover this position for 2 years.
- Chairman Perales mentioned the last meeting minutes cannot be approved due to not having a quorum present.
- Chairman Perales called on Intern Kareem Amr, to provide pertinent legislative updates.
- Mr. Amr stated that House Bill 386, a bill to add the Wright Flyer to the State Seal was unanimously passed through the state government committee, awaiting to reach House of Representatives floor.
- Chairman Perales will work with the House Speaker to present HB 386 to the House of Representatives before recess for Memorial Day.
- Mr. Amr mentioned House Bill 32 – Aircraft Excise Fuel Tax is being introduced to the House Ways and Means Committee.

- Mr. Amr mentioned Senate Bill 251 – Police-use of drones to gather evidence-regulate – referred to the Government Oversight and Reform Committee
- Mr. Amr stated the OAATC website is in the process of being updated
- Mr. Amr reminded the OAATC that this is the last meeting before the Annual Report is due. Chairman Perales' office will reach out to committee leads for their assistance and reports.
- Mr. Amr mentioned the OAATC is still working on the Aviation Hall of Fame and Tax-exemption status
- Chairman Perales mentioned again the importance to have Brian Wynne in Columbus to discuss UAVs.
- Chairman Perales asked for comments, questions, further discussion
- Ms. Sue Louscher, OAATC member, thanked Mr. Russo for keeping the OAATC Workforce Development workgroup on task with PLTW, pipeline for engineering and high tech jobs.
- Ms. Louscher introduced Mr. Dave Deskins, Superintendent of Greene County Career Center to discuss a career-center based technician-level program, an FAA pilot program as a model for the nation.
- Ms. Louscher suggests a meeting to discuss this initiative.
- Mr. Dave Deskins mentioned there is continued movement and support from local governments, Greene County school districts, and institutions of higher education for this partnership. They are maintaining contact with the Dayton Development Coalition and Dayton Regional Manufacturing Association and arranging a legislative local leadership education leadership tour for June 2016. They have applied with 4 other career center for grant funding through the Department of Education for robotics engineering and manufacturing equipment. They also partners with Beavercreek City schools for grant toward aerospace project for jet STEM project.
- Mr. Deskins mentioned this is more than a regional program and fits well with Mr. White's Project Lead The Way program.
- Chairman Perales asked if there were further comments for the good of the order. There were none.
- Chairman Perales thanked the members and the audience for their time and efforts.
- Chairman Perales adjourned the meeting at 11:53 pm.