

# **Ohio Aerospace and Aviation Technology Committee (OAATC)**

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**Annual Report**

**2019**

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## Letter from the Chairman

I am pleased to present the fifth annual report for the Ohio Aerospace and Aviation Technology Committee (OAATC).

The Aerospace industry continues to be one of Ohio's largest – directly employing over 100,000 Ohioans according to the 2018 OAATC report. Our state has no other industrial sector in which its federal facilities, private industry, and academic institutions play as dominant a role in U.S. industrial production, Research & Development (R&D), and governmental policy.

The Committee's goal in 2019 was to build on its successes in 2018 by furthering the vision of Ohio as America's leader in global aviation and aerospace. The committee did this by holding several hearings on the progress of various industries within the aerospace and aviation sector and by building relationships within the state executive branch and congressional delegation. Governor Mike DeWine's appointment of Joe Zeis as the first Senior Advisor for Aerospace & Defense was a major step in improving coordination between the OAATC and the Governor's office.

At Aerospace Day this past November, I witnessed firsthand the enormity of Ohio's capacity in this cutting-edge field. We have the expertise, the infrastructure, and geography. As 2019 demonstrated, we also have the political will. Because of this, the focus of the OAATC in 2020 will be identifying specific workforce shortfalls within aerospace and aviation industry and the role the State can play in providing solutions.

It my brief time as Chairman I have seen the incredible potential of aerospace and aviation industry to raise all of Ohio economically and bring our citizens a new sense of ownership in the future direction of our state. I look forward to leading the committee into the new decade.

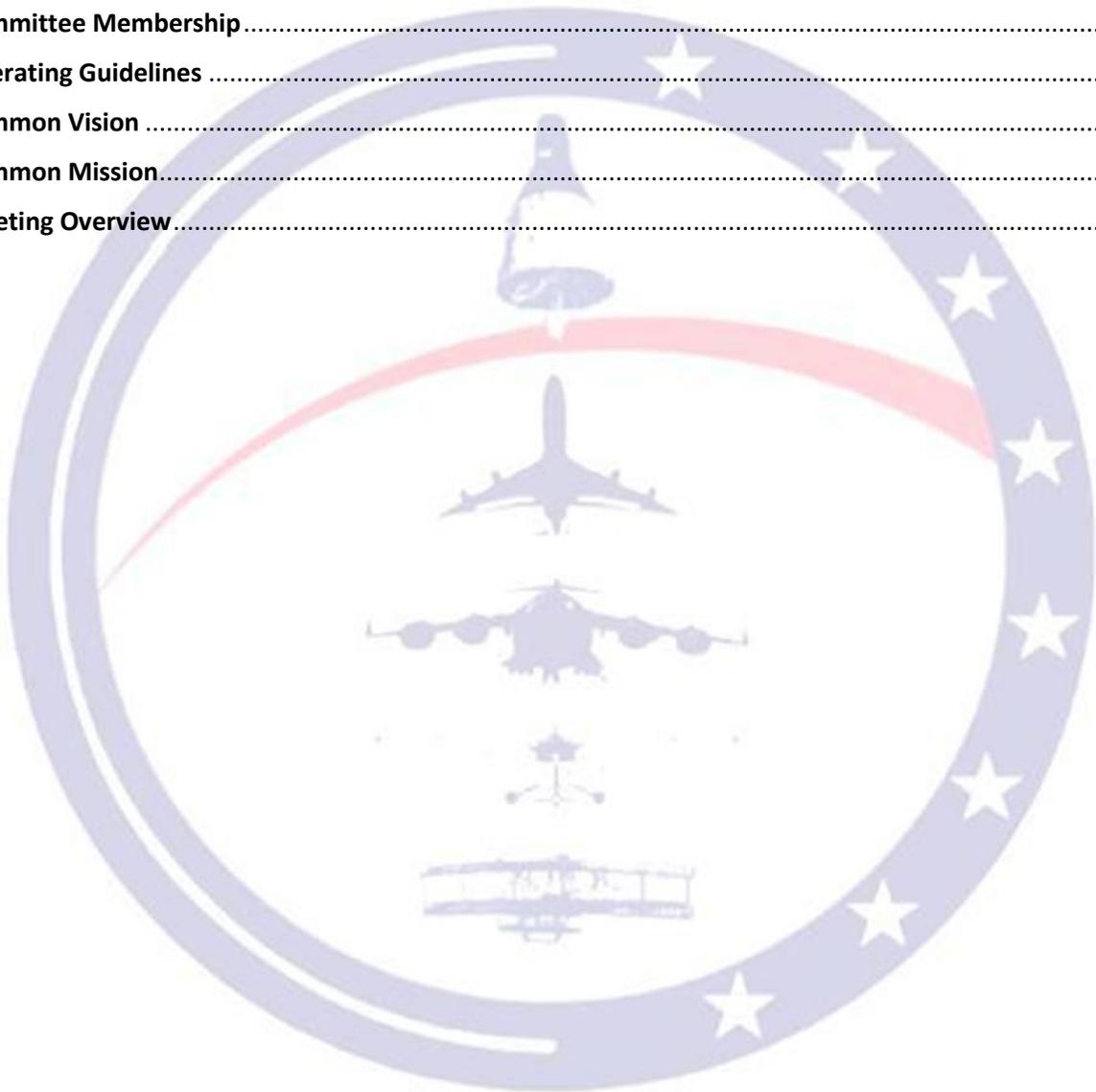
Respectfully,

A handwritten signature in black ink that reads "Adam Holmes". The signature is written in a cursive, flowing style.

Representative Adam Holmes  
Chairman, Ohio Aerospace and Aviation Technology Committee  
Ohio's 97<sup>th</sup> House District

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## **Committee History**

### ***130th General Assembly***

**June 17, 2014** – Governor John Kasich signs into law House Bill 292 to create the Ohio Aviation and Aerospace Technology Committee (OAATC).

**September 24, 2014** – Speaker William G. Batchelder and Senate President Keith Faber appoint the six legislative members to the OAATC.

**October 31, 2014** – Deadline for applications for the fourteen public members.

**December 17, 2014** – Announcement of the public appointees to the OAATC.

### ***131st General Assembly***

**February 18, 2015** – OAATC meets for the first time as a full committee.

**April 22, 2015** – OAATC meets and adopts “Operating Guidelines” and “Focus Areas.”

**May 5, 2015** – OAATC creates informal workgroups to study each of the focus areas.

**May 20, 2015** – OAATC meets and hears priority reports from each workgroup leaders.

**October 6, 2015** – OAATC hosts Ohio’s annual Aerospace Day in order to highlight Ohio’s aerospace industry and its contributions to the State of Ohio. The committee also held a formal meeting, luncheon, and panel discussion in the Ohio Statehouse.

**November 18, 2015** – OAATC meets and is updated on recommendations from workgroup leaders. The University of Dayton Research Institute and Bob Doyle from the Triumph of Flight project testify before the committee.

**December 9, 2015** – OAATC meets and invites partner agencies such as the Ohio Aerospace & Aviation Council (OAAC), Ohio Aerospace Institute (OAI), and the NASA Glenn Research Center to provide updates. Relevant legislation is also discussed, as well as workgroup updates.

**February 24, 2016** – OAATC meets to discuss the committee’s accomplishments in 2015 and to outline priorities for 2016. The committee continues to pursue the workgroup’s recommendations as well as incorporating partner updates into the meeting.

**April 6, 2016** – OAATC hosts an informal committee meeting for workgroup leaders to prioritize recommendations for the rest of the year.

**May 11, 2016** – OAATC meets to hear updates from partners such as the Ohio Federal Military Jobs Commission and the National Aviation Heritage Area. Relevant legislation is also discussed, and workgroup updates are given.

**June 23, 2016** – OAATC meets at NASA Glenn Research Center for a field hearing. Northeast Ohio aerospace companies testify on the importance of the region in the aerospace industry. Members of the committee tour the NASA Glenn facilities.

**September 21, 2016** – OAATC meets and invites the Dayton Development Coalition to brief the committee on the Ohio Defense Forum, as well as COPP Integrated Systems to provide an overview of their Footprint Technology. Committee member, Jeff Rolf leads a discussion regarding Aerospace Industry alignment.

**November 30, 2016** – OAATC hosts Ohio’s annual Aerospace Day in order to highlight Ohio’s aerospace industry and its contributions to the State of Ohio. The committee also held a formal meeting, luncheon, and panel discussion on the Ohio Statehouse.

**December 31, 2016** – The initial term of all members ends. Chairmanship of the OAATC alternates from the Ohio House of Representatives to the Ohio Senate in accordance with the Ohio Revised Code.

### ***132nd General Assembly***

**January 24, 2017** – Governor John Kasich makes an appointment to the OAATC.

**February 9, 2017** – Senate President Larry Obhof appoints the three Senate members to the OAATC.

**April 17, 2017** – Speaker Clifford A. Rosenberger appoints the three House of Representatives members to the OAATC.

**May 12, 2017** – Deadline for applications for the fourteen public members of the OAATC.

**June 6, 2017** – Legislative members meet and adopt Senate Committee Rules. The committee also announces the fourteen public appointees to the OAATC.

**June 16, 2017** – OAATC meets for the first time as a full committee at the Youngstown Air Reserve Station in Vienna, Ohio for a field hearing.

**August 17, 2017** – At the discretion of OAATC Chairman Bill Beagle and OAAC Chairman Carlos Grodsinsky, a “Tiger Team” of the OAATC and OAAC is formed and holds an informal meeting to outline priorities and structure of the OAATC for the 132nd General Assembly.

**September 13, 2017** – The “Tiger Team” of the OAATC and OAAC have an informal meeting to construct an illustrative framework that would be presented to all members of the OAATC at the November 7, 2017 formal meeting.

**November 7, 2017** – OAATC meets and adopts a Common Vision and Mission. The committee also defines its new rallying opportunities and creates three new sub-committees. Chairpersons and members of each sub-committee are identified and are tasked to develop specific goals and objectives to implement strategies and execute the mission of the OAATC.

**November 28, 2017** – OAATC hosts Ohio’s annual Aerospace Day, a strategic assembly of government, industry, and academic leaders to discuss the future of the aerospace and aviation industry in Ohio. The committee hosted exhibitors, held two panels, a luncheon, and a networking reception.

**December 8, 2017** – Joint meeting of the OAATC and OAAC sub-committees and Project Opportunity Team to discuss project identification, evaluation and execution processes to use so both organizations are working together with common goals, mission and tasks.

**December 27, 2017** – The 2017 OAATC Annual Report is submitted to the Office of Governor John Kasich, the Office of Speaker of the House of Representatives Clifford A. Rosenberger, and the Office of President of the Senate Larry Obhof pursuant to the Ohio Revised Code (ORC) 122.98.

**February 9, 2018** – The OAATC launches its Twitter account to better connect with constituents, industry, academia, and military on current events related to aerospace and aviation technology.

**February 12, 2018** – OAATC Chairman Bill Beagle submits a letter of support on behalf of the OAATC addressed to Andrea LaMendola, Chief Global Operations Officer, Hyperloop Transportation Technologies that reaffirms Ohio's commitment to Hyperloop technology and willingness to support Hyperloop research and development with the state's corporate and institutional resources.

**April 27, 2018** – OAATC Chairman Bill Beagle and Adam Holmes, OAATC Project Opportunity Team Leader attend the OAAC quarterly meeting providing updates to members of the OAAC on the progress of the OAATC and subcommittees.

**May 30 – 31, 2018** – The One Ohio Series: Defense Summit hosted by the Ohio Aerospace Institute (OAI) in Sandusky, Ohio. OAATC Member and Project Opportunity Team, Leader, Adam Holmes moderates the Department of Defense (DoD) Strategic Direction & Needs (General Session) panel discussion. OAATC Chairman Bill Beagle moderates the Ohio Federal Research Network panel discussion. OAATC Member and Economic Development Sub-committee Chairman, Jeff Rolf moderates the Importance of DoD Work in Ohio Districts panel discussion as Chairman Bill Beagle represents the OAATC as a panelist.

**July 9, 2018** – Upon retirement, OAATC member, Tiger Team member, and Economic Development Sub-committee Chairman, Jeff Rolf resigns from the committee.

**July 20, 2018** – OAATC Chairman Bill Beagle and Adam Holmes, OAATC Project Opportunity Team Leader attend the OAAC quarterly meeting providing updates to members of the OAAC on the progress of the OAATC and subcommittees.

**July 27, 2018** – OAATC holds a field meeting at the Springfield Air National Guard Base in Springfield, Ohio. Members are brief by Colonel Gregg Hesterman, Base Commander on the Mission of the 178th Wing.

**August 30, 2018** – OAATC Chairman Bill Beagle along with Ohio Senate OAATC staff tour the NASA Glenn Plum Brook Station in Sandusky, Ohio.

**September 7, 2018** – OAATC Chairman Bill Beagle, OAATC Project Opportunity Team Leader Adam Holmes, OAATC Advocacy Sub-committee Chairman Bob Tanner, OAATC General Member and OAAC Chairman Carlos Grodsinsky, OAAC Project Opportunity Team Leader Greg Morris, and Ohio Senate OAATC staff meet with the Republican Gubernatorial Campaign of DeWine-Husted to discuss the sustainment and longevity of the OAATC/OAAC Vision and Mission.

**September 18, 2018** – OAATC Chairman Bill Beagle and OAAC Chairman and OAATC General Member Carlos Grodsinsky, accompanied by other aerospace and aviation leaders from across Ohio, including members of the OAAC, as well as officials from JobsOhio meet NASA Administrator Jim Bridenstine at COSI in Columbus, Ohio. A discussion on the future of NASA, the aerospace and aviation industry in Ohio, and NASA's vision for the future and Ohio's critical role in that vision is held.

**September 18, 2018** - OAATC Chairman Bill Beagle, OAATC Project Opportunity Team Leader Adam Holmes, and OAATC staff attends General Aviation Advocacy Day at the Ohio Statehouse. AOPA, OAA, and ODOT brief the audience during a luncheon on general aviation in the State of Ohio.

**October 12, 2018** - Adam Holmes, OAATC Project Opportunity Team Leader briefed the OAAC, chaired by Carlos Grodsinsky, OAATC Leadership Member on the projects, structure, and status of the OAATC.

**October 16, 2018** - OAATC Chairman Bill Beagle, OAATC Project Opportunity Team Leader Adam Holmes, OAATC Advocacy Sub-committee Chairman Bob Tanner, OAATC General Member and OAAC Chairman Carlos Grodsinsky, OAAC Project Opportunity Team Leader Greg Morris, OAATC Secretary, Senator Sean O'Brien and Ohio Senate OAATC staff meet with the Democratic Gubernatorial Campaign of Cordray-Sutton to discuss the sustainment and longevity of the OAATC/OAAC Vision and Mission.

**November 27, 2018** – OAATC Chairman Bill Beagle hosts the final OAATC meeting of the 132nd General Assembly.

**December 5, 2018** – OAATC Chairman Bill Beagle and members of the OAATC host Ohio's annual Aerospace Day, a strategic assembly of government, industry, and academic leaders to discuss the future of the aerospace and aviation field in Ohio. A meeting of the Ohio Aerospace Caucus, a luncheon panel, exhibits, networking opportunities, a message from Lieutenant Governor-elect Jon Husted, and a reception were held throughout the day.

**December 31, 2018** – The 132nd General Assembly ends. The term of all members ends. Chairmanship of the OAATC alternates from the Ohio Senate to the Ohio House of Representatives in accordance with the Ohio Revised Code (ORC) 122.98.

### ***133rd General Assembly***

**February 14, 2019-** Speaker Larry Householder appoints Representatives Rick Perales and Adam Holmes to the OAATC. Representative Perales is appointed Chair.

**March 12, 2019-** Speaker Larry Householder appoints Representative Casey Weinstein, Senate President Larry Obhof appoints Senators Bob Hackett, Joe Uecker, and Sean O'Brien.

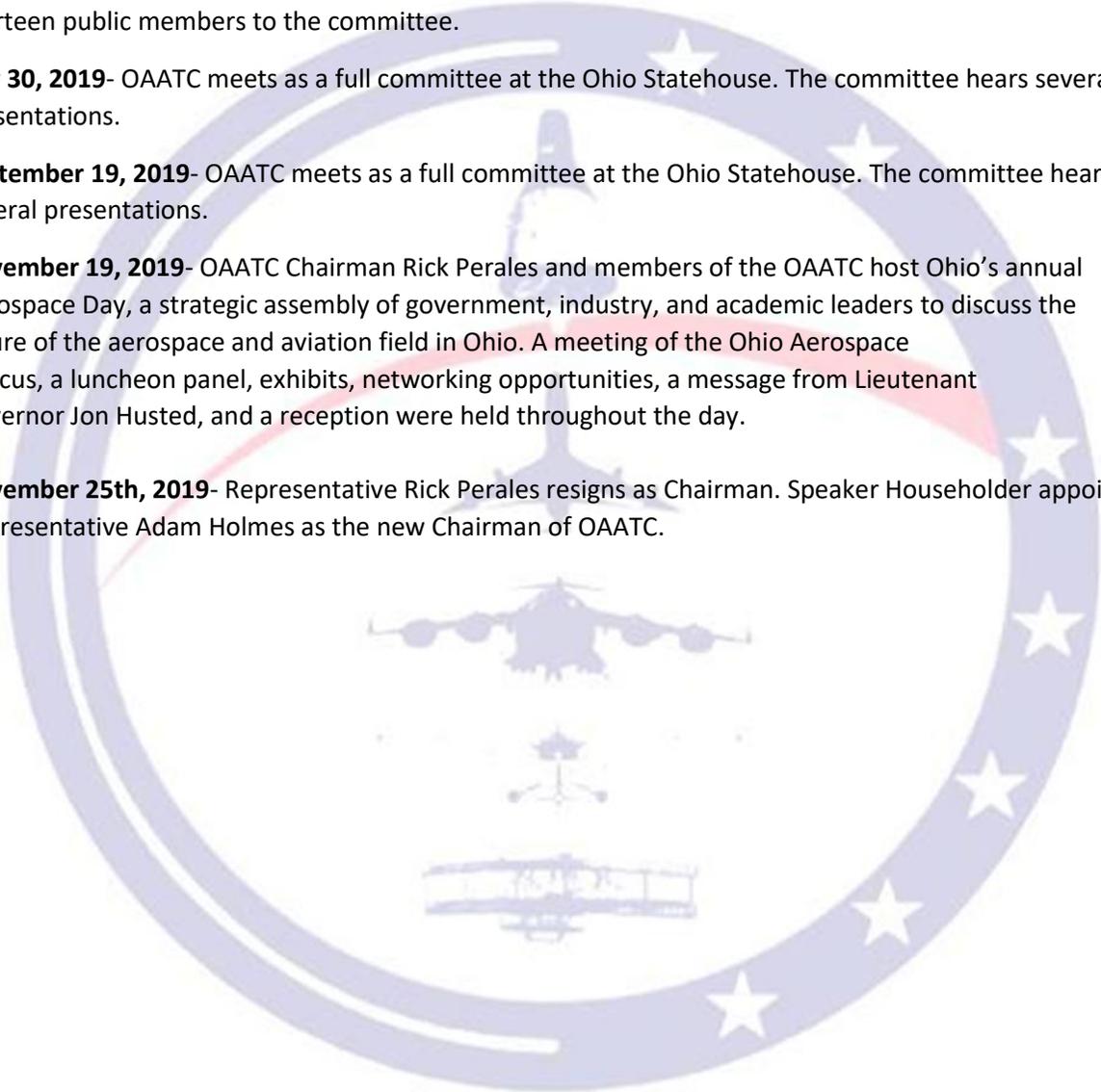
**June 14, 2019-** First OAATC meeting of the 133rd General Assembly. Legislative members appoint fourteen public members to the committee.

**July 30, 2019-** OAATC meets as a full committee at the Ohio Statehouse. The committee hears several presentations.

**September 19, 2019-** OAATC meets as a full committee at the Ohio Statehouse. The committee hears several presentations.

**November 19, 2019-** OAATC Chairman Rick Perales and members of the OAATC host Ohio's annual Aerospace Day, a strategic assembly of government, industry, and academic leaders to discuss the future of the aerospace and aviation field in Ohio. A meeting of the Ohio Aerospace Caucus, a luncheon panel, exhibits, networking opportunities, a message from Lieutenant Governor Jon Husted, and a reception were held throughout the day.

**November 25th, 2019-** Representative Rick Perales resigns as Chairman. Speaker Householder appoints Representative Adam Holmes as the new Chairman of OAATC.



## **Committee Charge**

According to the enabling language of House Bill 292 (ORC 122.98), the duties of the committee shall include, but are not limited to, all of the following:

- Studying and developing comprehensive strategies to promote the aviation, aerospace, and technology industries throughout the state, including through the commercialization of aviation, aerospace, and technology products and concepts;
- Encouraging communication and resource-sharing among individuals and organizations involved in the aviation, aerospace, and technology industry, including business, military, and academia;
- Promoting workforce initiatives at all levels that support the aviation and aerospace industry;
- Promoting research and development in the aviation, aerospace, and technology industries, including research and development of unmanned aerial vehicles;
- Providing assistance related to military base realignment and closure.

## **Annual Report**

An amendment was submitted by State Senator Bill Beagle to House Bill 49 during the 132<sup>nd</sup> General Assembly that requires the OAATC to compile an annual report and distribute copies of the report to the Governor, President of the Senate, and Speaker of the House of Representatives no later than December 31<sup>st</sup> of each year.

## **Committee Membership**

The OAATC is comprised of six legislators appointed by the President of the Senate and the Speaker of the House of Representatives. One public member is appointed by the Governor and fourteen public members are appointed by a majority vote of the six legislative members.

### General Assembly Members:

- Senator Louis Blessing III (R-Colerain Township)
- Senator Bob Hackett (R-London)
- Senator Sean O'Brien (D-Bazetta) – Secretary
- Representative Adam Holmes (R-Nashport) – Chairman
- Representative Rick Perales (R-Beavercreek)
- Representative Casey Weinstein (D-Hudson)

### Public Members:

- Dennis Andersh – Wright State Research Institute
- Bob Dirgo – Meggitt
- Jim Free – Aerospace Systems
- Jennie Gallimore – Bowling Green State University
- Carlos Grodsinsky – ZIN Technologies, Inc.
- Stacey Heaton- Ohio Aviation Association
- Michael Heil
- John Horack – Ohio State University
- Dennis Irwin – Ohio University
- Eric Kline- Safran Electrical & Power
- John Leland – University of Dayton
- Greg Morris
- Vince Russo – Aerospace Technologies Associations LLC
- Daniel Sarachene – Delta Airlines
- Robert Tanner – Federal Research Network

## **Operating Guidelines:**

Operating guidelines, also known as the committee's "rules of engagement", were adopted at the April 22, 2015 meeting in order to guide the committee process. All OAATC activities should comply with these guidelines:

- Fulfill duties outlined in enabling legislation
- Make recommendations that are "actionable" and "measurable"
- Leverage or extend Ohio's existing competitive advantage
- Unite the aerospace and aviation organizations in the state, educational and research organizations, state government agencies, industry, and the national laboratories
- As a group, seek to achieve statewide political consensus

## **Common Vision:**

Adopted by the committee at the November 7, 2017 meeting, "Ohio – America's Leader in Global Aviation and Aerospace" has become the committee's vision.

## **Common Mission:**

Adopted by the committee at the November 7, 2017 meeting, "Create opportunities in Ohio for economic growth, jobs, education and to shape the future of the Aviation and Aerospace Industries" has become the committee's mission.

## **Meetings Overview**

The following is a brief overview of the Ohio Aerospace and Aviation Technology Committee's (OAATC) meetings:

### **Ohio Aerospace and Aviation Technology Committee**

#### ***June 14, 2019 – Statehouse Room 017***

Chair Perales called the meeting of the Ohio Aerospace and Aviation Technology Committee (OAATC) to order at 11:05am in Statehouse Room 017. The Chair led an opening prayer followed the pledge of allegiance. Attendance was taken and quorum was present.

Chair Perales called for the appointment of Senator Sean O'Brien as Secretary. The motion was agreed to.

Chair Perales called for the legislative members to review the appointments of the public members of the OAATC. The Chair emphasized the desire for the committee to represent all corners of the state with diverse professional experiences and backgrounds. The Chair recognized Representative Adam Holmes who motioned to approve the appointments. The motion was seconded by Senator Hackett. With 4 affirmative votes and 0 negative votes, the appointments were approved.

Chair Perales called forward Joe Zeis, Aerospace and Defense Senior Advisor to Governor Mike DeWine. Mr. Zeis delivered a presentation on his role in the administration and the vision he has on advancing Ohio's military, aerospace, aviation, and federal research assets. The Chair entertained questions from the Chair, Senator Hackett, and John Leland.

Chair Perales led an overview discussion of the OAATC. The Chair went through the history of the committee and the duties of the body. The Chair then asked the members present to introduce themselves to the committee and guests. The Chair asked the Clerk to read brief biographies of the members not present.

Chair Perales called forward Carlos Grodsinsky, member of OAATC and Chair of the Ohio Aerospace and Aviation Council (OAAC). Mr. Grodsinsky presented an overview of the OAAC and discussed potential collaboration opportunities with the OAATC to maximize efforts. Mr. Grodsinsky turned the floor over to Greg Morris to give a detailed breakdown of the OAAC.

Chair Perales called on Representative Holmes to lead the organizational aspect of the OAATC to prepare for follow on meetings. Representative Holmes covered the expected priorities and potential sub groups to for the organization.

Chair Perales called for any additional business or remarks from the committee. Senator Hackett, Robert Tanner, Dr. Jennie Gallimore, Greg Morris, and Eric Kline emphasized their passion to get to work. Representative Weinstein comment how small aerospace businesses is what made his family choose Ohio as his permanent home. Michael Heil gave a plug for the upcoming air show and events were attendance should be encouraged. Dennis Andersh gave a brief overview of OFRN's upcoming projects.

The committee adjourned at 12:32pm.

### **Ohio Aerospace and Aviation Technology Committee**

***July 30, 2019 – Statehouse Room 017***

Chair Perales called the meeting of the Ohio Aerospace and Aviation Technology Committee (OAATC) to order at 10:01am in Statehouse Room 017. Representative Holmes led an opening prayer followed the pledge of allegiance led by Colonel (Ret) Sarachene. Attendance was taken and quorum was present.

Chair Perales asked the committee to review the minutes from the previous hearing. Hearing no objections, the minutes stood approved.

Chair Perales covered administrative tasks to update contact information of the committee, as well as include members of the public onto the distribution lists. The Chair asked for biographies of members to upload to the official website. Chair Perales introduced the Associate Member position to include applicants who were not appointed, but bring value to the aerospace and aviation sector. Associate members will participate in the subcommittees of the OAATC. The Chair informed the members that a compiled document of all budget actions surrounding aerospace and aviation would be distributed upon completion.

Chair Perales introduced the subcommittees to the members and emphasized a co-chair collaboration between the OAATC and the OAAC. After deliberation, the Chair created the Economic Development, Government Advocacy, Academic and Workforce Development, and Stakeholder Engagement Subcommittees. The Chair appointed Mr. Morris, Mr. Tanner, Dr. Horack, and Dr. Heil as the respective Subcommittee Chairs.

Chair Perales led introductions of the members and guests.

Chair Perales called forward Colonel (Ret) Art Huber, Deputy Director of the Operations Directorate at the Air Force Research Lab to present on Unmanned Aerial System R&D. Chair Perales entertained questions from the Chair, Ms. Heaton, Representative Holmes, Mr. Dirgo, Mr. Heil, Mr. Tanner, and Dr. Horack.

Chair Perales called forward Mr. Chris Conrardy, Chief Technology Officer and Vice President for Strategic Initiatives at the Edison Welding Institute. Chair Perales entertained questions from the Chair, Representative Holmes, Mr. Morris, Ms. Heaton, Mr. Tanner, and Dr. Horack.

Chair Perales called forward Mr. Dennis Andersh, Executive Director of the Wright State Research Institute and the Chief Executive Officer of the Wright State Applied Research Corporation. Chair Perales entertained questions from the Chair and Representative Holmes.

Chair Perales opened the floor for discussion. Dr. Grodsinsky gave a strategic update of the OAAC and will submit notes for the OAATC to review. Representative Holmes emphasized working with federal delegation. Dr. Heil emphasized getting Lieutenant Governor Husted involved in Ohio's push to be number one state for aerospace and aviation.

The committee adjourned at 12:00pm.

### **Ohio Aerospace and Aviation Technology Committee**

#### ***September 19, 2019 – Statehouse Room 615***

Chair Perales called the meeting of the Ohio Aerospace and Aviation Technology Committee (OAATC) to order at 10:03am in Statehouse Room 615. Chair Perales led an opening prayer followed by the pledge of allegiance led by Robert Hakes. Attendance was taken and a quorum was present.

Chair Perales asked the committee to review the minutes from the previous hearing. Hearing no objections, the minutes stood approved.

Chair Perales asked members of the committee and audience to introduce themselves.

Chair Perales called forward Mr. Fred Judson, ODOT/DriveOhio Director of the Ohio UAS Center, to present on DriveOhio and their projects. Chair Perales entertained questions and comments from the Chair, Mr. Andersh, Mr. Heil, Dr. Grodsinsky, Mr. Tanner, and Colonel (Ret) Sarachene. Mr. Judson was asked to share DriveOhio's strategic vision with the committee. Mr. Tanner was asked to draft a letter to Ohio congressional delegates.

Chair Perales called forward Ms. Stacey Heaton, Executive Director of the Ohio Aviation Association, to present on OAA and their projects. Chair Perales entertained questions and comments from the Chair, Senator Hackett, and Mr. Tanner. It was suggested that members of the FFA should be invited to Aerospace Day and the November 19th committee meeting.

Chair Perales called forward Representative Adam Holmes, Dr. Carlos Grodsinsky, and Chief Operating Officer for Zin Technologies, and Mr. Michael Johanson, Senior Vice President for Zin Technologies, to provide updates and an overview of the upcoming Ohio Aerospace Day to be held on Tuesday, November 19th in the Statehouse Atrium. Chair Perales entertained questions and comments from Representative Holmes and Colonel (Ret) Sarachene. The Ohio Defense Forum held on October 7th and 8th was suggested as an example to mold the Ohio Aerospace Day after.

Chair Perales opened the floor for discussion. Committee members discussed the importance of involving congressional delegates in OAATC committees and events. Chair Perales asked also asked Jack Blackhurst, executive director of the U.S. Air Force Research Laboratory, to provide updates regarding SkyVision.

Chair Perales ended committee by having subcommittee groups begin initial discussions.

The committee adjourned at 11:44 am.

### **Ohio Aerospace and Aviation Technology Committee**

#### ***November 19, 2019- Statehouse Atrium***

Chairman Rick Perales hosted Ohio Aerospace Day 2019. The event was an outstanding opportunity for statewide networking with the aerospace and aviation community. The agenda for the day is below:

**The Ohio Aerospace and Aviation Technology Committee  
& Ohio Aerospace and Aviation Council  
Present  
Ohio Aerospace Day  
November 19, 2019  
Ohio Statehouse, Columbus, Ohio  
Agenda**

- 8:00 – 9:00 a.m.: Registration / Networking / Continental Breakfast (**Statehouse Atrium**)
- 9:00 – 9:05 am Introduction and Welcome
- 9:05 – 9:45 am OAATC-OAAC Report to **Caucus (Representative Rick Perales, Dr. Carlos Grodsinsky, Representative Adam Holmes, Greg Morris)**
- 9:50- 10:20 am Morning Keynote: Federal Assets/Unique Test Asset (**Retired Colonel Joseph E. Zeis Jr, Senior Advisor for Aerospace and Defense**)
- 10:20-10:35 am Networking Break
- 10:35-11:20 am Urban Air Mobility (UAM) Panel 1 (**Fred Judson**)
- 11:20-12:00 am Networking Break/Exhibits/Setup Lunch or Buffet Line
- 12:00-12:15 am Guest Speaker (**Ohio Lieutenant Governor Jon Husted**)
- 12:15-1:45 pm Industry Round Table (**Dr. John Sankovic, President/CEO of the Ohio Aerospace Institute**)
- 1:45-2:00 pm Networking Break
- 2:00-2:45 pm Workforce Development/STEM Panel 2 (**Jim Tressel, President of Youngstown State University**)
- 2:50-3:35 pm Space Technology Panel 3 (**Dr. John Horack, Associate Dean of Engineering at The Ohio State University**)
- 3:40-4:25 pm Manufacturing/MRO Panel 4 (**State Representative Adam Holmes , OH-97**)
- 4:25-5:00 pm Networking Reception