CHAIRMAN’S MESSAGE

Peak Efficiency

RTCA has served the aviation community for more than eighty years and now offers its services to a global industry in historically turbulent times. The challenges and uncertainty we face in providing safe transportation have never been more profound - and the need for the products we offer, more valuable to our stakeholders. In short, the RTCA value proposition through its provision of consensus and timely technical standards remains the core foundation upon which aviation will advance in the future.

With a dedicated staff, committed Board, an insightful advisory council and energetic volunteers, RTCA stands on a strong financial and physical infrastructure as it seeks both innovation and safety. Each of these groups participated in the development of a fresh strategic plan that has guided RTCA’s focus and results during the past year.

The five year vision provides flexibility as well as productivity that was a product of both foresight and necessity. Our efficient posture has served us well in the COVID era. Early in the year, investments enabled the more robust “remote” capabilities most needed today and have provided a platform for efficient special committee engagement. These capabilities have also enhanced our increasing scope of collaborative alliances and expanded RTCA’s global reach.

As contemporary aviation welcomes an acceleration in commercial space operations, UAS/“drone” activity and the prospect of urban air mobility vehicles, the output of our special committees are shaping the future of the airspace system as well as the benefits it provides to everyone who travels. As always, it is RTCA’s technical volunteers, the industry SME’s, and their leadership who remain the core force in the advancement of new standards on which aviation will serve and support global growth.

My thanks to each of you who are contributors and stakeholders in creating this exciting and innovative future. Your efforts to advance aviation safety, security and efficiency have never been more essential or more valued. Together we can create a more strategic, durable and diverse industry with broader capabilities as the current uncertainty recedes and the future we have shaped arrives.

Steve Brown
Chairman
Ever since publishing its first standard for the design and development of anti-static antennas in 1937, RTCA has provided the foundation for virtually every modern technical advance in aviation. Today, we continue to seek solutions that serve traditional aviation participants while ensuring stakeholder success by adapting to the market needs of new entrants that are changing the demands of the overall aviation landscape.

2019 was a year of transition for RTCA as we began our first full year as an independent standards development organization. After several months of bold conversations and thought-provoking sessions, we published our 5-year strategic plan with a new mission and vision for our work in the aviation community. In meeting the crossroads that would determine our future, our strategic plan serves as an important guide to meet today’s challenges, enhance success for our stakeholders, and discover opportunities for growth in our business and membership base.

Throughout the year, we continued our important work in standards development for the aviation community. Through the establishment of new special committees, the publication of new performance standards, RTCA continues to meet our mission to inspire the creation and implementation of integrated performance standards that meet the changing global aviation environment and ensure the safety, security, and overall health of the aviation ecosystem.

2019 was also a time to plan for our long-term future. New investments in our office space, audio visual capabilities, committee collaboration tools, and a website re-design will result in enhancing our abilities to better serve our membership and the industry.

Everything we do is driven by our vision – the recognized collaborative international leader in developing aviation technology performance standards. By working together with our members and other stakeholders, we will continue to achieve our vision through early and purposeful engagement that prepares government and industry for future technology development and implementation.

Terry McVenes
RTCA President and CEO
# TABLE OF CONTENTS

1. Chairman’s Message
2. President’s Message
4. Committees
6. Membership
7. Standards Trainings
9. Financial Snapshot
11. 2019 RTCA Board of Directors
13. 2019 RTCA Advisory Board

RTCA Annual Report 2019
COMMITTEES

At the core of RTCA are the hundreds of dedicated individuals from the U.S. and around the world who come together to develop comprehensive, industry-vetted and endorsed recommendations. A Standards Development Organization (SDO), RTCA works with the Federal Aviation Administration (FAA) and industry to develop comprehensive, industry-vetted and endorsed standards that can be used as means of compliance with FAA regulations. Our committees drive enhancements to the safety and sustainability of the entire aviation system. All SDO plenary committee meetings are open to the public and attract a broad range of committee participants.

Highlights and Impacts

The FAA requests SC-231 be re-established to gain industry input into answering NTSB safety recommendations.

SC-237 creating an internationally harmonized MOPS for offshore HTAWS at member request.

SC-147 and RTCA part of a nomination package for the 2019 Collier Trophy for the standard that defines ACAS Xa/Xo.
MEMBERSHIP

RTCA is about changing the way we do business in aviation. This new way of doing business involves collaboration, consensus, and government/industry partnerships where none have existed before. It’s creating and sustaining partnerships that will play important roles in shaping the future aviation system. This is an exciting time.

MEMBERS
541

COUNTRIES
33

MEMBERS BY INDUSTRY

GOVT
42+

ASSOCIATION
11+

INDUSTRY
394+

ACADEMIC
30
STANDARDS TRAININGS

RTCA offers training courses on documents to facilitate the use of key documents by our stakeholders, and to enhance the understanding of developing and using global standards and guidance. As a non-profit organization, RTCA is eager to assist the aviation community in implementing the new standards developed with by our special committees.

All training courses offered:

<table>
<thead>
<tr>
<th>DO-160G</th>
<th>DO-178C</th>
<th>DO-254</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTCA, Inc. has teamed with Wichita State University’s National Institute for Aviation Research (WSU-NIAR) to offer high quality training covering RTCA’s DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment. The course will provide an understanding of the use of DO-160G and how it fits in with the greater picture of requirements, design, certification and Technical Standard Orders (TSOs).</td>
<td>RTCA has teamed with The MITRE Aviation Institute to offer high quality and relevant training for the aviation industry in understanding the requirements and parameters for avionics software development necessary to obtain FAA certification. The two world class organizations are using their collective experience and expertise to provide training on the new standards and recommended practices contained in the new DO-178C, Software Considerations in Airborne Systems and Equipment Certification.</td>
<td>RTCA is hosting a three-day training course, tailored specifically to design/verification engineers and project/certification managers requiring DO-254 compliance.</td>
</tr>
</tbody>
</table>

Testimonials

Excellent training provided here!  
- JK

Great organization helping the future of aviation happen  
- R. Niles
NEW 2020 TRAININGS

Airworthiness Security Certification Course - High-quality training covering RTCA’s DO-326A, DO-355 and DO-356A. This course describes what Airworthiness Security is and why it is important. It also explains which FAA Regulations, standards, etc. will require these documents and procedures as well as how to use these standards.

Guidance for Engineers: DO-178C DAL D Systems - This training provides a thorough review of the RTCA/DO-178C objectives necessary to achieve compliance for airborne software components assigned DAL D. This condensed version of DO-178C training will present what is needed for an organization to put together the minimum plans, processes and data required to demonstrate compliance to DAL D objectives.

Management Seminar: DO-178B/C, DO-254 & SAE/ARP4754A - The training material provides a management-level overview of RTCA/DO-178B & C, RTCA/DO-254 & SAE/ARP4754A objectives and associated activities required as part of a certification program. It provides insight on the usual certification pitfalls, processes flaws, project cost, recommended practices and maintainability aspects of these programs.

Guidelines for Development of Civil Aircraft and Systems (SAE/ARP-4754A) - This course covers in detail, industry guidance for the development of aircraft and aircraft systems and how this guidance is deployed in industry in terms of practical application within a company’s engineering processes and demonstration of compliance to ARP4754A objectives.

Integrated Modular Avionics (IMA) Development Guidance and Certification Considerations - This course provides the fundamentals for developing and integrating IMA systems, using DO-297 and applicable Advisory Circular material. It presents the definition, tasks and role of each party in the context of component integration, from the platform level to the application, system and aircraft perspective.

<table>
<thead>
<tr>
<th>TRAININGS</th>
<th>PARTICIPANTS</th>
<th>PARTICIPATING COUNTRIES</th>
<th>TOTAL TRAINING DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>177</td>
<td>8</td>
<td>40</td>
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</tbody>
</table>
FINANCIAL SNAPSHOT
Resourceful. Strategic. Efficient

RTCA offers training courses on documents to facilitate the use of key documents by our stakeholders, and to enhance the understanding of developing and using global standards and guidance. As a non-profit organization, RTCA is eager to assist the aviation community in implementing the new standards developed with by our special committees.

**STATEMENT OF FINANCIAL POSITION**
December 31, 2019

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>$</th>
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</thead>
<tbody>
<tr>
<td>Cash and Cash Equivalents</td>
<td>1,533,101</td>
</tr>
<tr>
<td>Investments</td>
<td>5,144,023</td>
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<tr>
<td>Accounts Receivable</td>
<td>148,270</td>
</tr>
<tr>
<td>Prepaid Expenses &amp; Deposits</td>
<td>147,797</td>
</tr>
<tr>
<td>Fixed Assets, Net</td>
<td>518,995</td>
</tr>
<tr>
<td><strong>TOTAL ASSETS</strong></td>
<td>7,492,186</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>LIABILITIES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts Payable &amp; Accrued Expense</td>
<td>227,875</td>
</tr>
<tr>
<td>Deferred Revenue</td>
<td>1,185,215</td>
</tr>
<tr>
<td>Accrued Employee Leave</td>
<td>63,032</td>
</tr>
<tr>
<td>Accrued Rent</td>
<td>599,353</td>
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<tr>
<td>Capital Lease Obligation</td>
<td>2,633</td>
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<tr>
<td><strong>TOTAL LIABILITIES</strong></td>
<td>2,078,108</td>
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<table>
<thead>
<tr>
<th>NET ASSETS</th>
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</thead>
<tbody>
<tr>
<td>Without Donor Restrictions</td>
<td>4,243,164</td>
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<tr>
<td>Board Designated for Jackson Fund</td>
<td>1,170,914</td>
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<tr>
<td><strong>TOTAL NET ASSETS</strong></td>
<td>5,414,078</td>
</tr>
</tbody>
</table>

| TOTAL LIABILITIES AND NET ASSETS | 7,492,186 |

**STATEMENT OF ACTIVITIES**
For the Year Ended December 31, 2019

<table>
<thead>
<tr>
<th>REVENUE</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membership Dues</td>
<td>1,533,101</td>
</tr>
<tr>
<td>Government Association</td>
<td>101,421</td>
</tr>
<tr>
<td>Industry</td>
<td>1,233,207</td>
</tr>
<tr>
<td>Academic</td>
<td>34,545</td>
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<tr>
<td>Document Sales</td>
<td>541,444</td>
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<tr>
<td>Sublease Income</td>
<td>40,553</td>
</tr>
<tr>
<td>Registration</td>
<td>441,692</td>
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<tr>
<td>Sponsorship</td>
<td>117,650</td>
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<tr>
<td>Miscellaneous Income</td>
<td>1,736</td>
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<tr>
<td><strong>TOTAL REVENUE</strong></td>
<td>3,488,609</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPENSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Committees/Task Forces/Work</td>
<td>640,700</td>
</tr>
<tr>
<td>Documents/ Publications</td>
<td>105,845</td>
</tr>
<tr>
<td>Symposium</td>
<td>145,224</td>
</tr>
<tr>
<td>Membership</td>
<td>143,376</td>
</tr>
<tr>
<td>Training</td>
<td>335,779</td>
</tr>
<tr>
<td>Program Development</td>
<td>62,918</td>
</tr>
<tr>
<td>Administration</td>
<td>2,615,840</td>
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<tr>
<td><strong>TOTAL EXPENSES</strong></td>
<td>4,049,682</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHANGE IN OPERATING NET ASSETS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Investment Income (Net of Fees)</td>
<td>434,150</td>
</tr>
<tr>
<td>Unrealized Gains/(Losses) on Investments</td>
<td>314,325</td>
</tr>
<tr>
<td><strong>CHANGE IN OPERATING NET ASSETS</strong></td>
<td>187,402</td>
</tr>
</tbody>
</table>

| Net Assets, Beginning of Period | 5,226,676|
| **NET ASSETS, END OF PERIOD**   | 5,414,078|

| TOTAL LIABILITIES AND NET ASSETS | 7,492,186 |
REVENUE
$3,488,709

- MEMBERSHIP: 67% ($2,345,634)
- DOCUMENT SALES: 16% ($541,444)
- REGISTRATION: 13% ($441,692)
- SPONSORSHIP: 3% ($117,650)
- SUBLEASE INCOME: 1% ($40,553)
- MISCELLANEOUS: 0% ($1,736)
2019 RTCA BOARD OF DIRECTORS

The RTCA Board of Directors is responsible for management and fiduciary oversight. This includes reviewing and approving the annual operating budget. The Board of Directors also works in conjunction with the RTCA Advisory Board to establish RTCA policies and programs.

STEVE BROWN
Chairman, NBAA

LORNE CASS
Aero Now Gen Solutions

MELISSA RUDINGER
Treasurer, AOPA

MICHAEL INGRAM
Honeywell Aerospace

NATE BOELKINS
Collins Aerospace

TODD ZARFOS
The Boeing Company

TERRY MCVENES
President and CEO, RTCA

BRETT EASTHAM
Corporate Secretary, RTCA
2019 RTCA ADVISORY BOARD

The Advisory Board serves as an important link between the members of RTCA and the organization’s policy development activities by establishing RTCA policies and programs.

ALI BAHRAMI, EX OFFICIO
Federal Aviation Administration

EDDIE MAYENSCHEIN
Transportation Security Administration

ERIC ALLISON
Uber Elevate

STACY CORDELL
University of Kansas

FAYE MALARKEY BLACK
Regional Airline Association

CPT. HOUSTON MILLS
United Parcel Service

JENS HENNIG
General Aviation Manufacturers Association

RICHARD STANSBURY
Embry-Riddle

JOHN CRAIG
Aviation Information Sharing and Analysis Center

SEAN CASSIDY
Amazon Prime

ANGELA GITTENS
Airports Council International - ACI World

CHRIS OSWALD
Airports Council International - North America

RANDY KENAGY
Air Line Pilots Association, International

ROWAYNE SCHATZ
Department of Defense

GREGG LEONE
The MITRE Corporation

TOM FERRELL
Joby Aviation

PAUL RINALDI
National Air Traffic Controllers Association

PAMELA WHITLEY, EX OFFICIO
Federal Aviation Administration