



2021 AMCA North America Virtual Region Meeting General Session

June 8, 2021

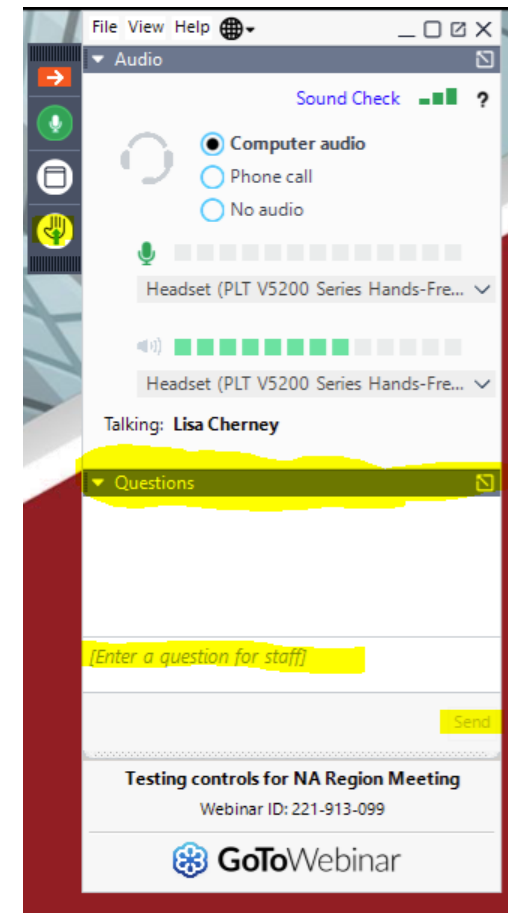
Frank Cuaderno

AMCA North America
Region Chair



Introductions & Guidelines

- Today's meeting agenda is attached in the "Handout" section of the attendee control panel along the side of your screen, and can be open/viewed on screen or printed from your computer.
- Audience will be muted during the program.
- Questions can be submitted anytime via the GoToWebinar platform and will be addressed at the end of the presentation. To submit a question:
 1. On the attendee control panel along the side of your screen, select the "Questions" drop down option. →
 2. Type your question in the text box and begin with the name of the person to whom your question is directed. →
 3. Click "Send". →
- Reminder: This program is being recorded.



Call to Order

Roll Call

The GoToWebinar registration list will serve as the attendee roll call.

AMCA International's Policies and Guidelines

Available on AMCAConnect:

<https://www.amcaconnect.org/home/myamca/members-handbook-details>

2021 North America Region Meeting Virtual Meeting General Session

June 8, 2021

AGENDA

1. Call to Order – 9:00 a.m.

The AMCA Americas Region Chair, Frank Cuaderno will call the meeting to order.

2. Roll Call and Introduction of Staff

Go-To-Webinar registration/sign in list will serve as the attendee/roll call list.

3. AMCA International's Policies and Guidelines

A copy of AMCA's policies and guidelines are available on AMCAConnect.

<https://www.amcaconnect.org/home/myamca/members-handbook-details>

4. Adoption of Agenda

The agenda may be adopted by consensus.

5. Discussion Topics

5.1 State of the Association – Mark Stevens

5.2 2021-2022 Budget – Paul Fajnor

5.3 Report from the North America Steering Committee (NARSC)
– Frank Cuaderno

5.4 North America Region Marketing

- Statistical Program – Matt Gaedtke
- Marketing – Brett Vake
- Education – Andy Bosscher
- Covid-19 Research – Michael Ivanovich

5.5 North America Advocacy

- **AMCARC** – Christian Taber
- **ACCARC** – James Carlin

5.6 Standards & Publications Updates & News – Joe Brooks

5.7 CRP & Lab Update – Nazme Mohsina

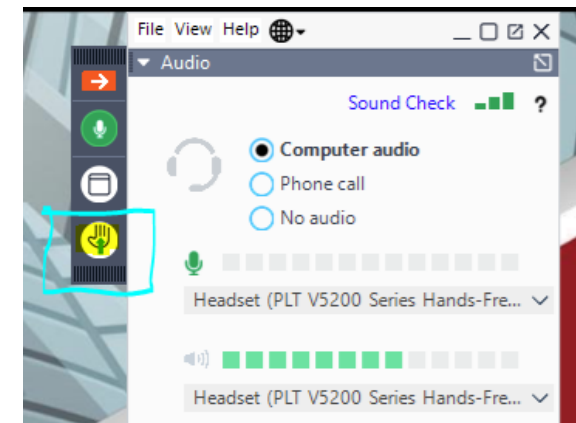
6. Next Meeting – Mark Stevens

7. Open Town Hall Meeting – Q&A

8. Adjournment – 11:00 a.m.

Adoption of Agenda

*The agenda will be adopted by consensus.
Please **raise your hand** on your control panel
if you have any additions or objections.*

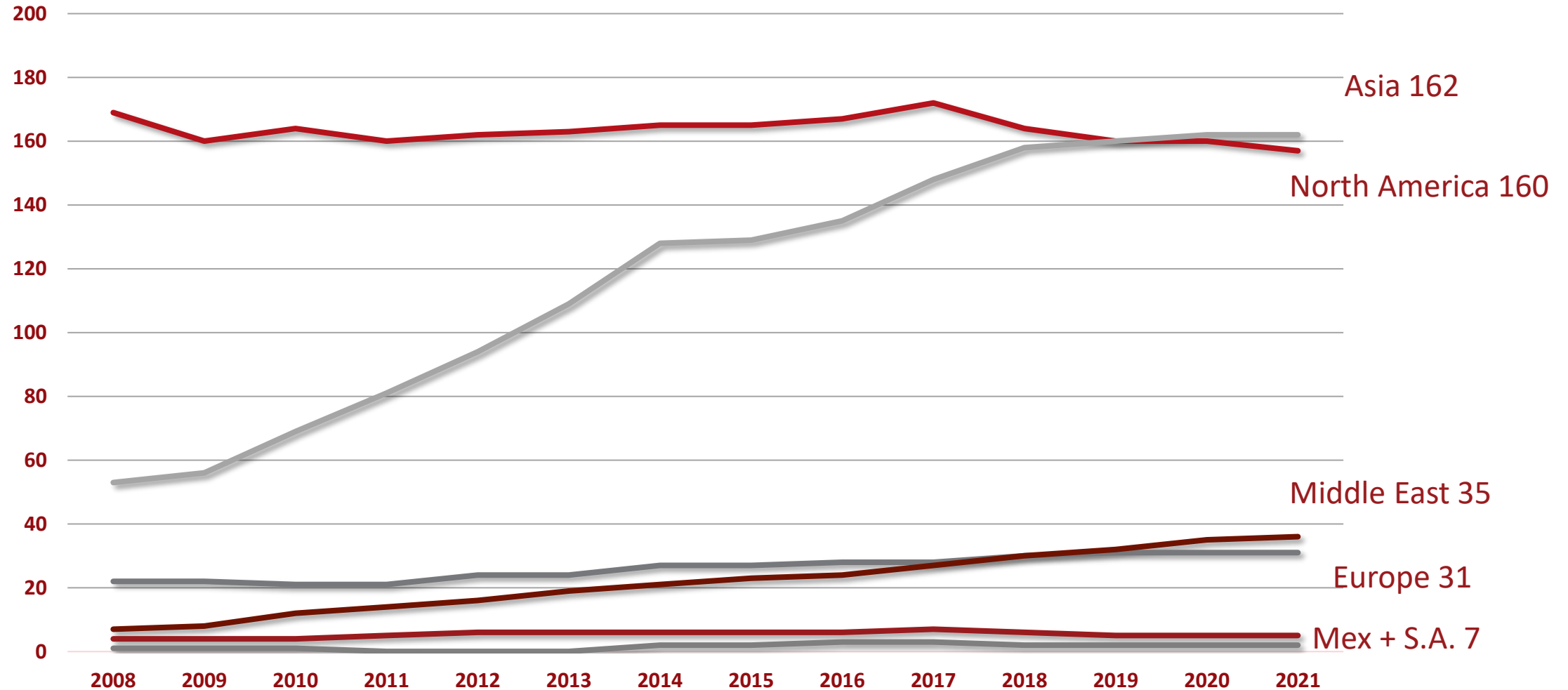


Mark Stevens
Executive Director

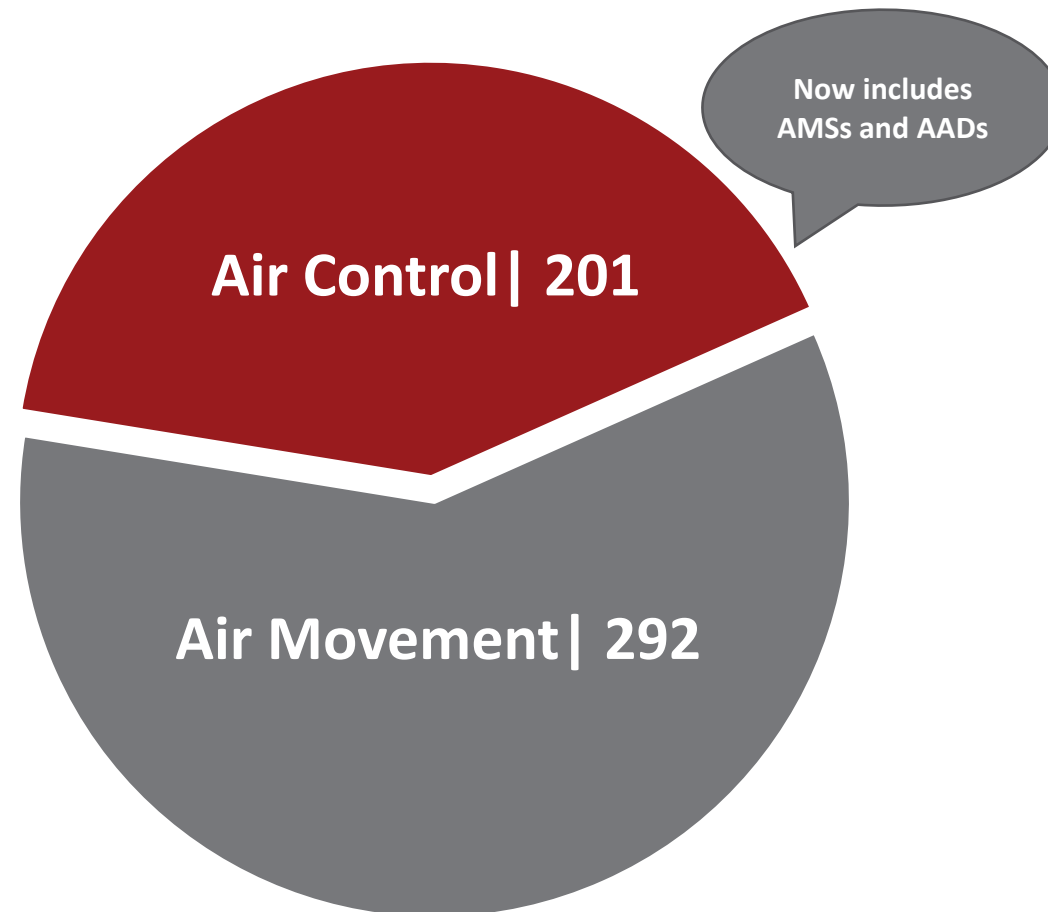
State of the Association



Membership Trends



What Our Members Manufacture



Partners

 Kellen

 KTC

한국기계전자시험연구원

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ASIA AMCA

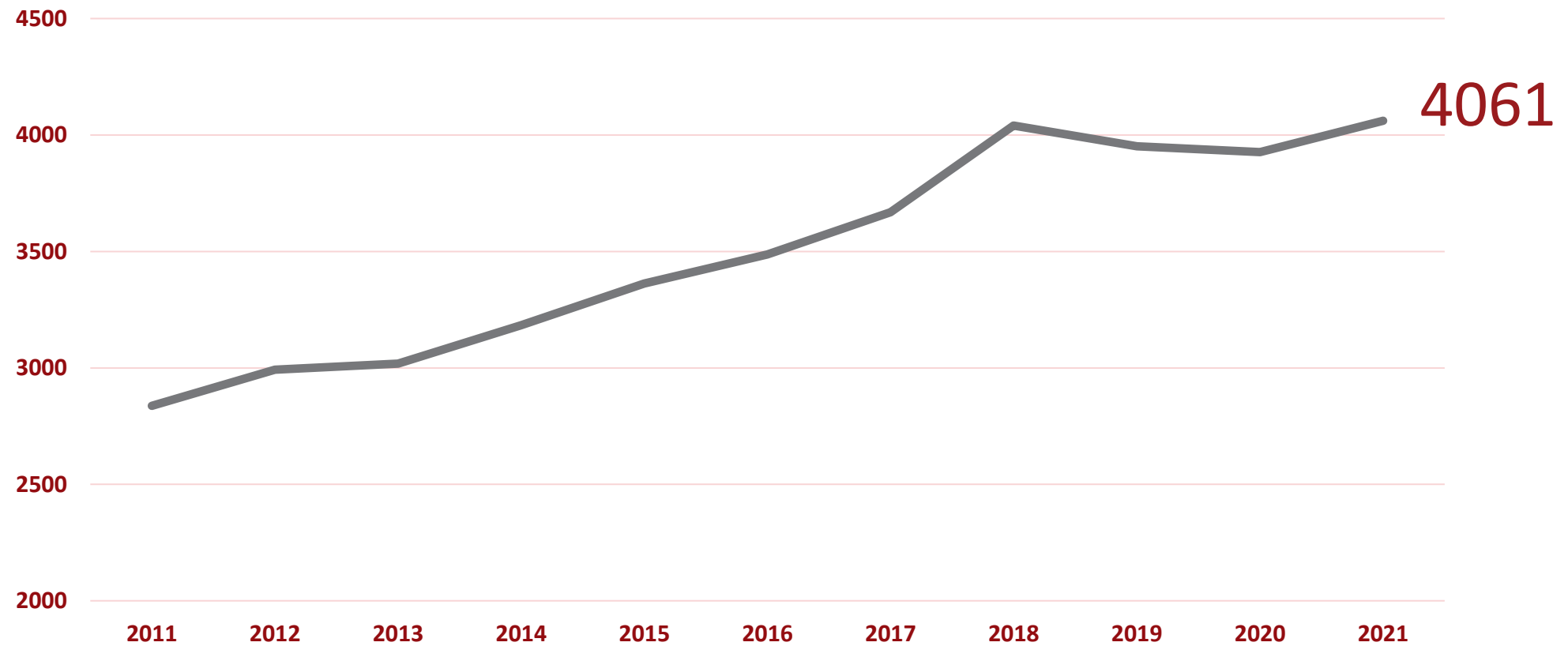
 intertek

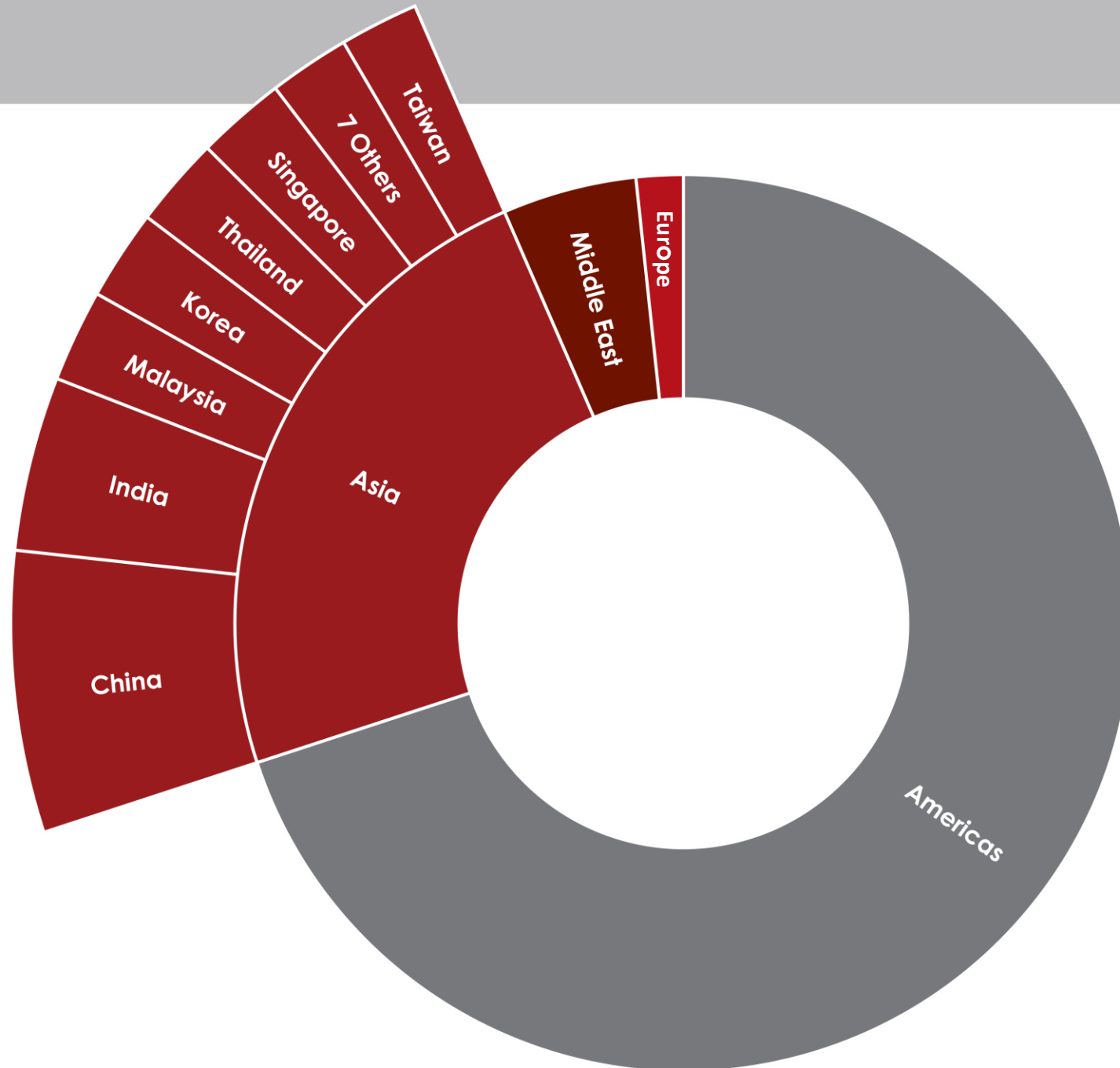
 THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS

 Kellen

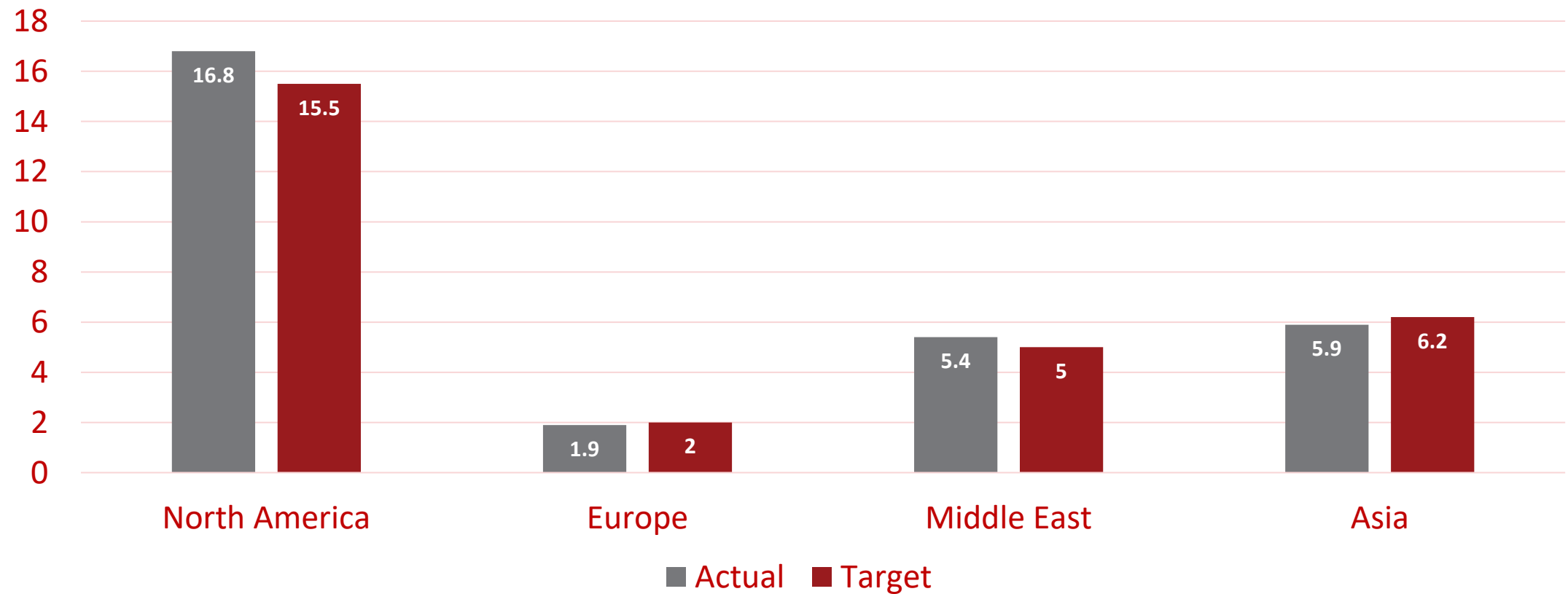


Product Certifications

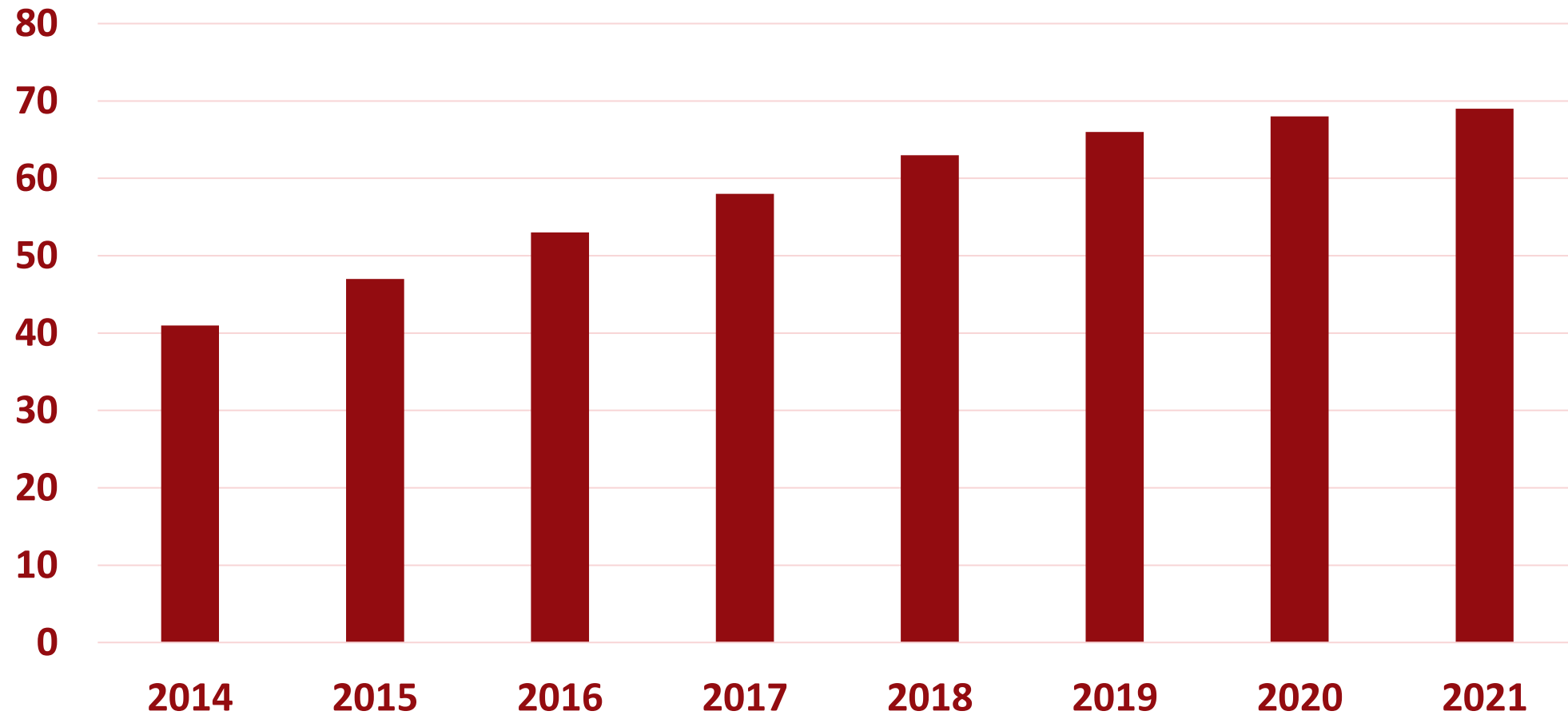




Certification KPIs



Lab Accreditations



New Bylaws Effective April 1, 2021

Substantive Changes

- Expansion of the Definition of “Associates”
“A company that designs and sells a product under AMCA’s scope, but subcontracts assembly and fabrication.” to Article III, Section 7
- Introduce a Committee Chair term limit of two years
“The term of the chair is two years. The chair may not serve more than two consecutive terms.” to, Article 9, Section H (new) on Committee Chairs.

Substantive Changes

- Engineering Committees

Mandate product section engineering committees and remove the association-wide engineering committee, Article 9, Section 2B

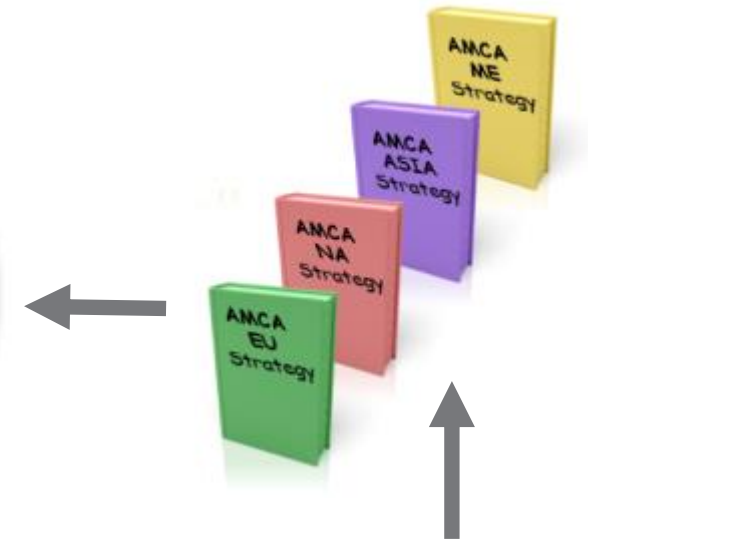
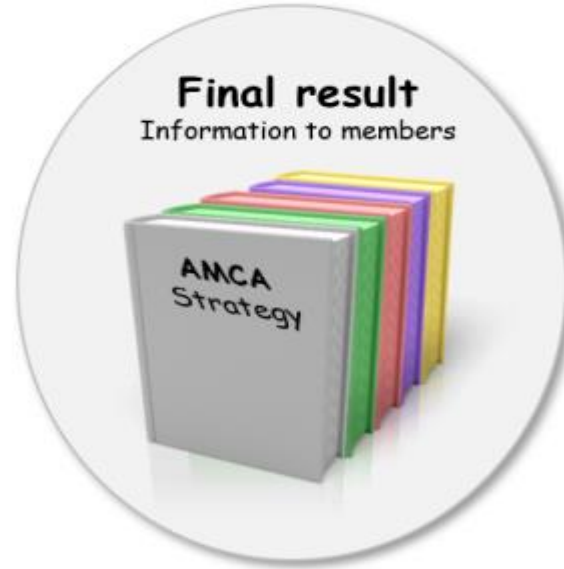
- Marketing and Advocacy Committees

This moves marketing advocacy responsibilities to the regions, Article 9, Sections 2D and 2E (new).

Strategic Planning 2021




















International Board



Expanded Meetings Initiative

Future State Year Three

North America		Europe		Asia		Middle East	
 Region	 AGM/Div	 Region		 Region		 Region	
 RSC	 Board Board Board	 RSC	 Board	 RSC	 Board	 RSC	
 Social		 Social		 Social		 Social	

Membership Applications

- Bylaws require “Evidence of financial responsibility”
- Traditionally through financial statement
 - Income statement
 - Balance sheet
- Not effective
 - Didn't lead to meaningful conclusions
 - No effect on decisions to leave AMCA
 - Didn't impact bad debt expense line

Membership Applications

- Board approved new process
 - Deposit and
 - D&B report with a minimum Low/Low-Moderate Bad Debt Write-off score, or
 - If a D&B report is unavailable, standard commercial credit references may be substituted.

Membership Applications

- A deposit of \$3500, to be returned to the member upon membership resignation or termination given the following caveats. To be eligible for a return of the deposit the member must satisfy all four of the following.
 - (a) have participated in the CRP for more than four years and have certified at least three products (other than CRP B) or (b) participated in the laboratory accreditation program
 - have no current outstanding violations of the CRP
 - remove all references to AMCA membership or certification on their website and promotional material, including job submittals.
 - have no outstanding invoices

New CRP Manager!

Charles Meyers

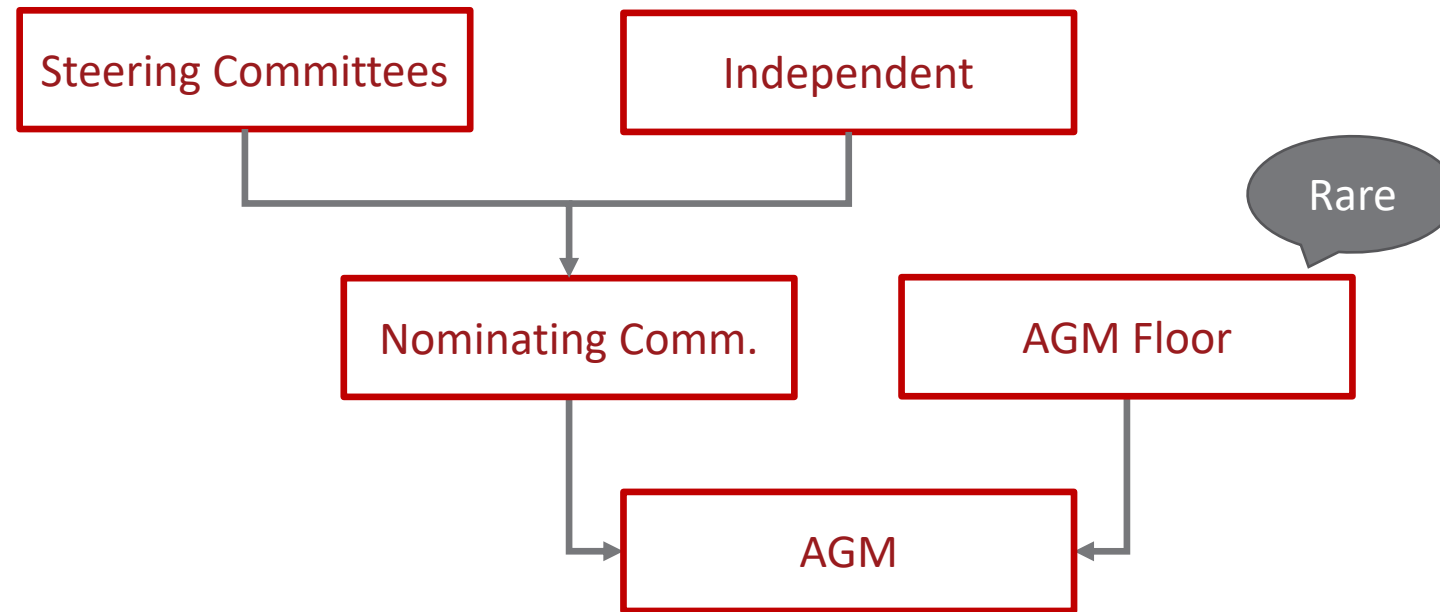
Director, Product Certification

Building & Construction at Intertek

Start date: June 28



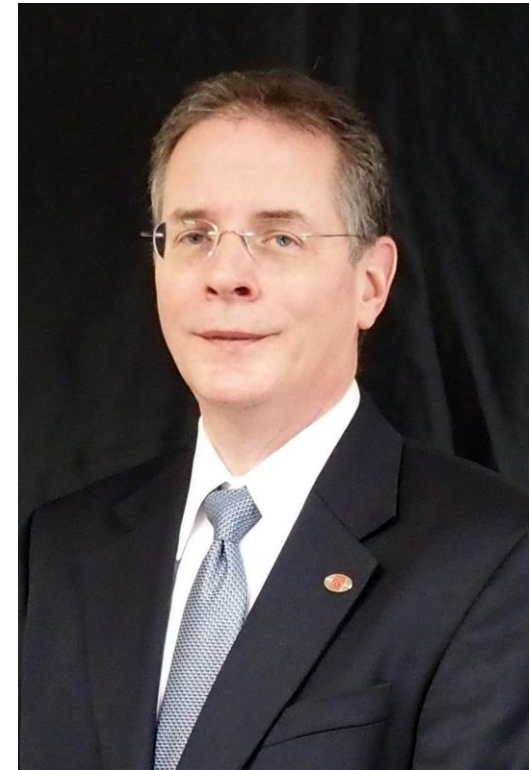
Board Nominations



Paul Fajnor

Director of Finance, HR &
Information Technology

AMCA's Fiscal 2021- 2022 Budget



Fiscal 2020-2021 Forecast Highlights

- 9 months of actual + 3 months original budget +/- adjustments
- Revenues
 - Forecast - \$7.5m
 - Original Budget - \$7.6m
 - Variance - \$0.1m
- Expenses
 - Forecast - \$6.7m
 - Original Budget - \$7.6m
 - Variance - \$0.9m
- Projected net profit \$834K
- Original Budget \$0K (breakeven)

Fiscal 2021-2022 Budget Highlights

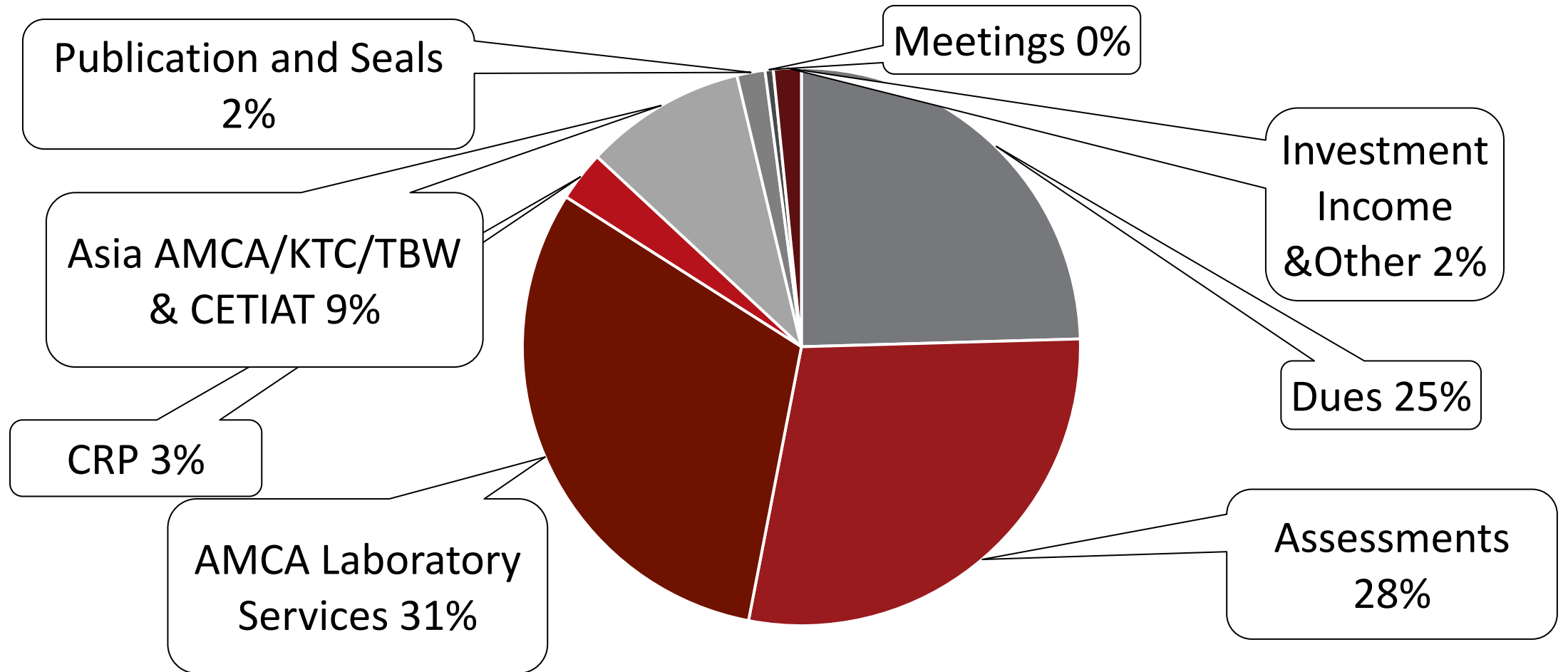
- Board approved a balanced budget at their May 18th meeting
- Budget includes:
 - Continued commitment to the strategic plan, staff and infrastructure
 - Suite of new or expanded services
 - Motor Calibration/ AMCA 250/ AMCA 230/ Energy Star
 - Price increases effective July 1, 2021
 - \$2,000 increase in maximum assessment – members outside of North America
 - Lab Services – 3%
 - Lab Accreditation – 3%
 - Catalog checking increase
 - Special Assessment for both Europe and Middle East regions – increased advocacy, subject to that region's Steering Committee approval
 - Increased Meeting expense – anticipating F2F meetings

Statement of Activities

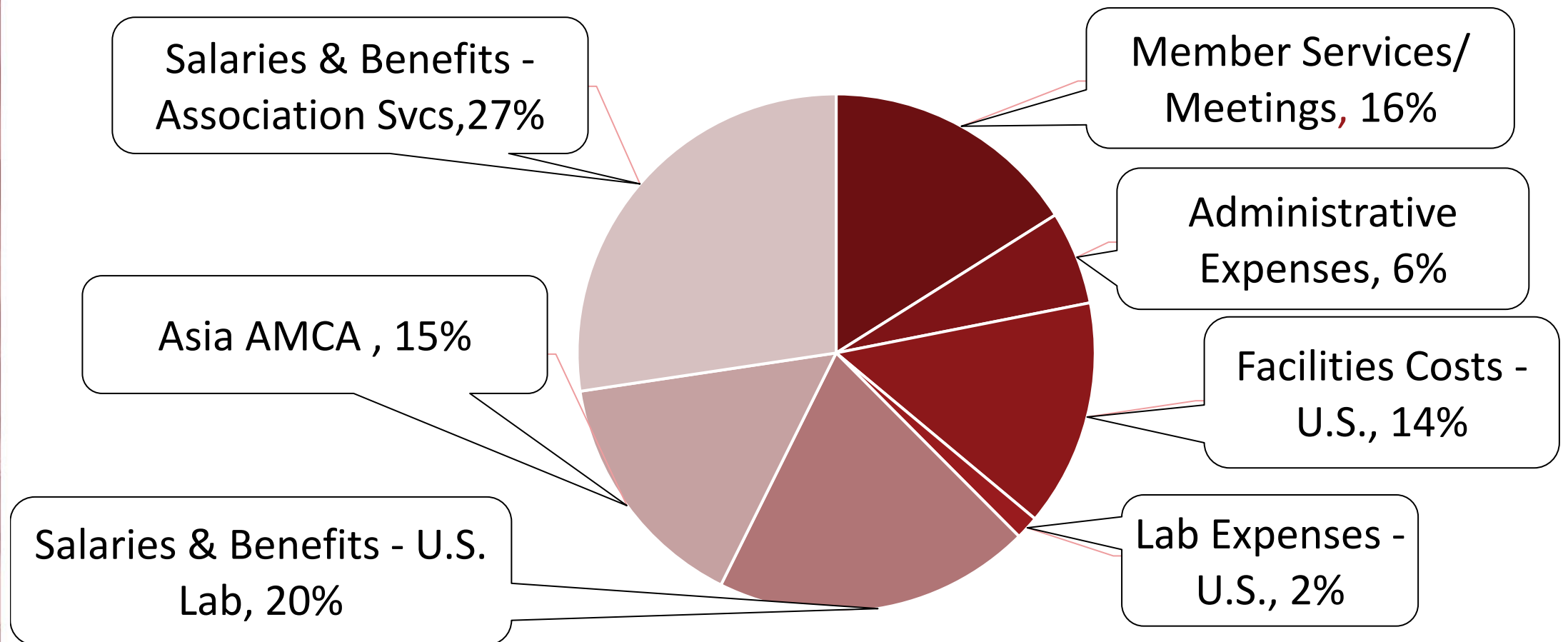
For the Years Ended June 30, 2021, and 2022

	2021 Forecast	2021 Budget	Variance to Budget	2022 Budget	2021 Forecast vs. 2022 Budget
Revenue	\$7,450,086	\$7,557,472	(\$107,386)	\$7,847,677	\$397,591
Expense	(6,277,295)	(7,303,110)	1,025,815	(7,497,404)	(1,220,109)
	\$1,172,791	\$254,362	\$918,429	\$350,273	(\$822,518)
Non-Controlling Interest in Joint Venture	(338,366)	(254,568)	(83,798)	(350,016)	(11,650)
Net Increase/(Decrease) in Net Assets	\$834,425	(\$206)	\$834,631	\$257	(\$834,168)
Reserves in months	8.6	5.9		7.3	

AMCA 2021-2022 Budget Revenues- \$7.8m

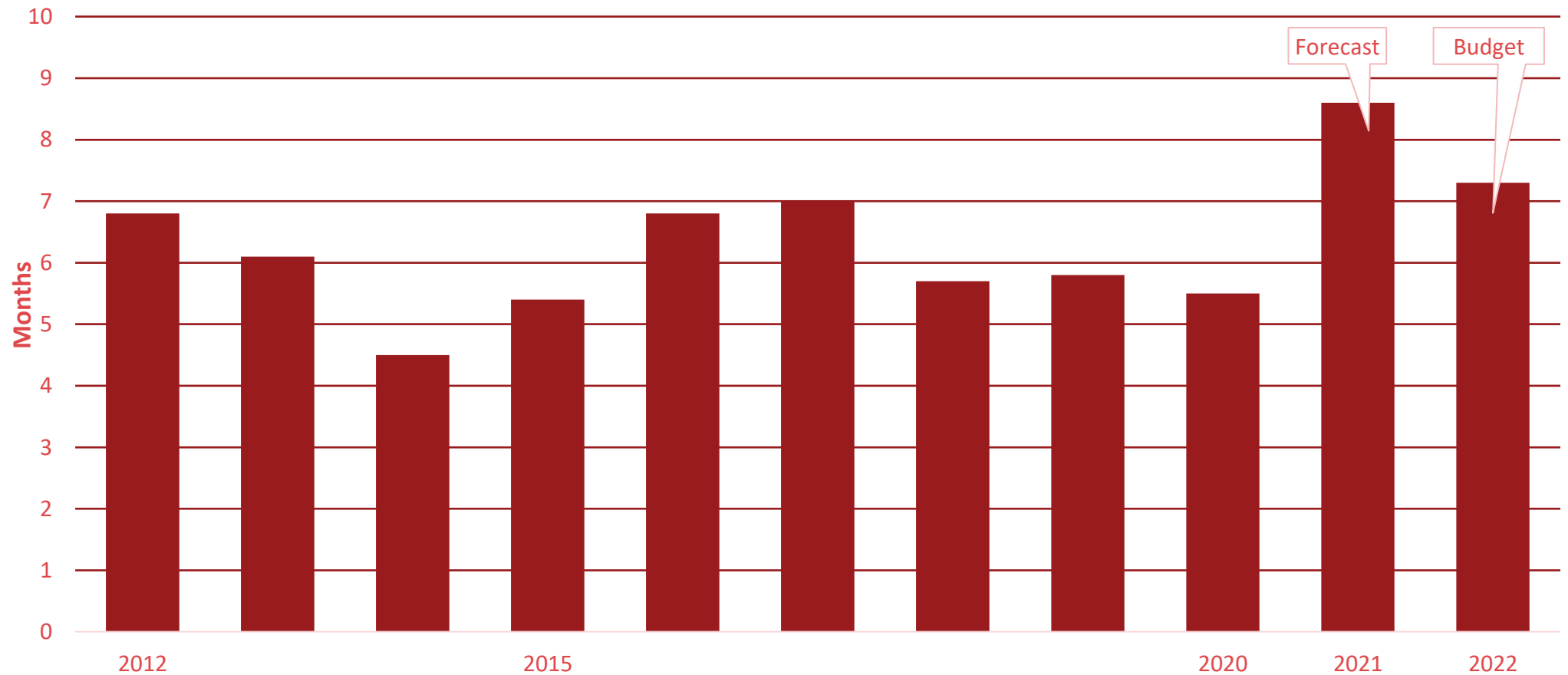


AMCA 2021-2022 Budget – Expenses - \$7.8m



Operating Expenses Liquid Reserves

Target Range 3-10 months operating exp



Fiscal Year Ended June 30, 2020

- Plante Moran – Unqualified Opinion
- U.S. Form 990 – filed
- No instances reported via the Whistleblower policy

Frank Cuaderno

AMCA North American
Region Chair

Report from the
North America
Steering Committee
(NARSC)



NA Region Steering Committee Report

- **8 members– Maximum allowed 8 members**
- **Meeting Schedule**
 - As required per advocacy or code activities
 - Before every board meeting

NA Region Steering Committee Report

- **NARSC Purpose**

- North American related topics only
- Regional Steering Committees report to the AMCA International Board of Directors and are tasked with assisting the Board by determining policies and initiatives congruent with overarching policies and strategies set by the Board that best serve AMCA International and its members in its region.
- Not a technical committee
 - Requests various committees
 - To provide scope or position
 - Assigns resources (technical experts) and creates sub-committees as required
- Reviews/Approves proposal changes and/or proposals before board approval
- All AMCA committees should report all advocacy or code activities in the region
- Ensures other committees aware of activities
- Ensures position and/or direction are in alignment

NA Region Steering Committee Report

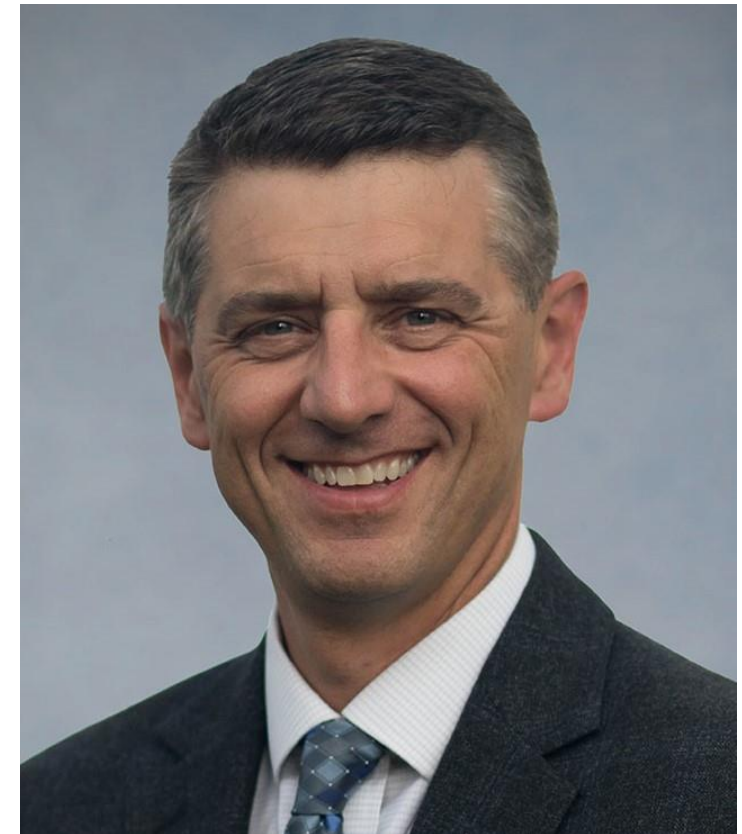
- **AMCA Committee Structure matrix**
 - Approved by the Board in May was reviewed with NARSC members.
 - The matrix covers different types of committees, their approval and disbanding processes, reporting structure and additional information.
 - A list of all the committees that report to NARSC and distribute it to the committee.
- **Let us know what is going on in your committee please.**

North America Region Marketing

Matt Gaedtke

Statistical Subcommittee
Chair

NA Statistical
Subcommittee



Committee Report Out

- North America Stats survey
 - Sent to all NA voting reps and alternates
 - Stats committee members
- As of June 1, there were 14 submissions
- General feedback
 - 1/3 unaware of program
 - 50% participate
 - Mixed results on value / trustworthiness of report
 - Survey requested potential tactics to increase awareness and enhance participation
 - greatest response (41%) stating no interest in learning more

Committee Report Out

- Future
 - Committee scheduled to review survey in more depth
 - Weighing options, to include presenting to NARSC for discontinuation of program and reallocating program budget

Brett Vake

Marketing Committee Chair

NA Marketing Committee



Committee Report Out

- Advertising
 - CRP print and social campaign launched
 - Check it! Visual tag line coming

Is your fan missing something?

You'd know right away if a piece of your next fan was missing. But now there's something that can have an even greater impact on fan performance—an AMCA-certified **Fan Energy Index (FEI)** rating. FEI is a fan-energy metric calculated at specific airflows and pressures. FEI ratings can include a motor and drive, thus communicating the expected power consumption of complete fan systems. Because FEI can be calculated for any duty point, it helps engineers select fans for high efficiency across an entire operating range. In short, FEI helps right-size fans with optimal motors and drives, reducing energy waste and carbon emissions and extending service life.

To find AMCA-certified FEI-rated fans, visit [amca.org/verify](https://www.amca.org/verify). For more information about FEI, visit [amca.org/fei](https://www.amca.org/fei).

UPDATE: FEI has replaced Fan Efficiency Grade in:
ANSI/ASHRAE/IES Standard 90.1-2019 | ANSI/ASHRAE/USGBC/IES Standard 189.1-2020
International Green Construction Code 2021 | International Energy Conservation Code 2021

STAND FOR A HIGHER STANDARD

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RE-THINKING VENTILATION IN A POST-PANDEMIC WORLD.

Downflows seemed like ghost towns. But now buildings are filling up again. And renovations are helping to make building environments healthier and safer. How you manage ventilation and the technologies you specify are critical. AMCA International's testing, certification, and rating systems validate equipment performance that meets the health, safety and efficiency standards of the new era we're living in. Specify AMCA certified products. And design the healthier environments building owners expect. For all the latest certifications and white papers, go to [amca.org/verify](https://www.amca.org/verify).

STAND FOR A HIGHER STANDARD

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CHECK IT. DON'T CHANGE IT.

SEAL THE DEAL
Make sure the products you buy carry the AMCA seal.

CHECK IT. DON'T CHANGE IT.

SEAL THE DEAL
Make sure the products you buy carry the AMCA seal.

CHECK IT. DON'T CHANGE IT.

AMCA International
1,907 followers

Simusam, sendi veles ipitae volores trest lantio velecer epelici endit, sa volorit most quidant officiu? Um se volorum nos as quatumque sendellam nus volestis seniendipsam volesse ... see more

SEAL THE DEAL
Make sure the products you specify carry the AMCA seal.

AMCA WORLDWIDE CERTIFIED RATINGS

- AIR PERFORMANCE
- AIR MOVEMENT AND CONTROL ASSOCIATION
- WATER PERFORMANCE
- AIR PERFORMANCE
- AIR EFFICIENCY
- AIR MOVEMENT AND CONTROL ASSOCIATION
- AIR PERFORMANCE
- AIR EFFICIENCY
- AIR MOVEMENT AND CONTROL ASSOCIATION

13

Like Comment Share Send

Be the first to comment on this

AMCA International
1,907 followers

Simusam, sendi veles ipitae volores trest lantio velecer epelici endit, sa volorit most quidant officiu? Um se volorum nos as quatumque sendellam nus volestis seniendipsam volesse ... see more

DON'T GET CAUGHT WITH UNCERTIFIED PRODUCTS.

CHECK IT. DON'T CHANGE IT.

AMCA WORLDWIDE CERTIFIED RATINGS

- AIR PERFORMANCE
- AIR MOVEMENT AND CONTROL ASSOCIATION
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- AIR EFFICIENCY
- AIR MOVEMENT AND CONTROL ASSOCIATION
- AIR PERFORMANCE
- AIR EFFICIENCY
- AIR MOVEMENT AND CONTROL ASSOCIATION

13

Like Comment Share Send

Be the first to comment on this

Committee Report Out

- Trade Show schedule
 - BIG5 Dubai – September 12-15
 - AHR Expo – Booth C3628, January 31-February 2, 2022
- Website updates
 - Activity calendar feature added (Calendar of Events (amca.org))
 - New LDCF microsite launched (amca.org/lDCF)
 - Adding more robust, stand-alone Pubs and Standards section to site
 - Stay tuned

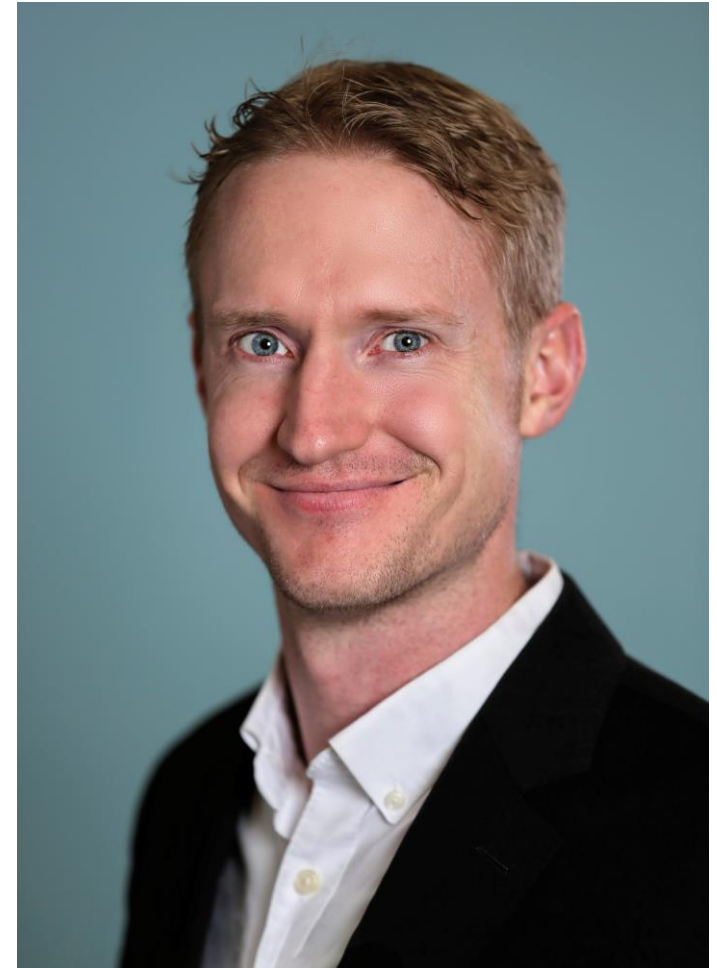
Committee Report Out

- Committee activity
 - Meetings scheduled every 2nd Wednesday of month at 11 AM CDT
 - Tweaking format to make more advisory and active
 - Less staff report out
- Bylaws change affect
 - Meeting scheduled for June 9 will accept nominations and vote for a new Chair

Andy Bosscher

Education Committee Chair

Education Update



Education & Training Committee

- Currently has 9 active members from 8 Member companies
- Meetings held on Tuesday's, every 6 weeks
- Elevated from a Subcommittee to a Standing Committee, April 2021
 - Will now report to the North America Regional Steering Committee.

Education & Training Programs- Highlights

- **WEBINARS-** YTD have conducted 14 live programs
 - 3 for Members only; 1 geared primarily for the Middle East audience
 - 4 joint webinars; conducted with: RSES Journal, ICC/RESNET, AHRI & Rutgers Industrial Assessment Center (USDOE IAC)
 - Total Registrations YTD: 4,160; Actual Attendees YTD: 2,580
 - 62% Attendance rate; General average is 40%
- **LMS-** Launched in February; over 150 learners registered
 - 2 PDH-granting education modules online; 4 more in production
 - 2 Member-focused, informational mini-modules
 - 27 PDH-granting webinar recordings posted
 - 12 Fan-focused modules by Ron Wroblewski being uploaded
 - Establishing digital badges

Outreach & Upcoming Conferences

• OUTREACH

- National Institutes of Health- *Customized FEI training, June 22 & 23*
- Emirates Green Building Council & Energy Efficiency and Renewables Office (Reem)- *Fall 2021 joint webinars*
- Rutgers– *Ongoing relationship; 4th joint webinar in October 2021*
- Core Learning Exchange- *Sought out AMCA for partnership in offering online education programs*

• CONFERENCES

- Virtual AMCA Sound Seminar: October 5-7, 2021
- AHR Expo: January 31-February 2, 2022; Las Vegas- *AMCA offering 6 education sessions*
- HVAC Excellence: March 21-23, 2022; Las Vegas- *AMCA invited to present*
- FAN 2022: April 6-8; France- *Paper abstract submitted in 2020 & under review*
- NFPA: June 6-9, 2022; Boston- *Due date for propels TBA*

Scott Arnold

Content Manager

Content Update



Industry-Content Subcommittee

- Reports to North America Marketing Committee
- Held first meeting Feb. 9
- Responsibilities:
 - Evaluate and prioritize publishing opportunities with trade press
 - Identify topics and authors for white papers
 - For AMCA inmotion:
 - Advise on editorial lineup
 - Review editorial policies
 - Consult on publication agreement

AMCA inmotion Publication Agreement

- One issue each in 2021, 2022, 2023
- Distribution:
 - Print:
 - 47,000 copies to ASHRAE Journal subscribers in U.S., Canada, Middle East
 - 1,000 copies to AMCA
 - Digital:
 - 100% of ASHRAE Journal digital and High Performing Buildings subscribers (115,000)
 - Free access on ASHRAE, High Performing Buildings, AMCA websites
 - Article inclusion in High Performing Buildings newsletter

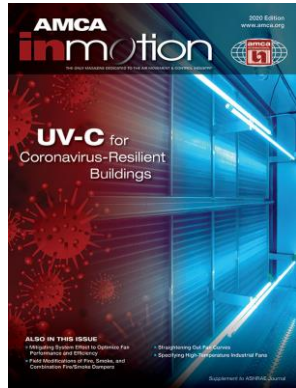
AMCA inmotion Publication Agreement

- Distribution (continued):
 - In-Person:
 - Trade fairs at which ASHRAE exhibits for six months following publication
 - Trade fairs at which AMCA exhibits (e.g., AHR Expo)
- Each year, AMCA to receive a \$17,000 credit for advertising in ASHRAE media or a free non-sponsored webinar

AMCA inmotion – 2021 edition

- To be published in November
- Editorial lineup (tentative):
 - AMCA large-diameter-ceiling-fan research
 - Parking-garage ventilation
 - Control dampers for data centers
 - Positive-pressure ventilators
 - Louvers FAQ
 - AMCA lab and CRP

AMCA inmotion – Awards and Honors



PRNEWS CSR & Nonprofit Awards:

- Honorable Mention, Annual Publication or Brochure



PRNEWS CSR & Nonprofit Awards:

- Winner, Annual Publication or Brochure

PRNEWS Platinum PR Awards:

- Honorable Mention, External Publication

American Business (“Stevie”) Awards:

- Bronze Winner, Other Publication – Association or Non-Profit



PRNEWS CSR & Nonprofit Awards:

- Winner, Annual Publication or Brochure

- Honorable Mention, External Publication or Report

PRNEWS Platinum PR Awards:

- Honorable Mention, External Publication

Updating of AMCA White Papers

COMING SOON:

- An Introduction to the AMCA Certified Ratings Program
- Guideline Specifications for Selected AMCA-Certified Products
- How to Ensure AMCA-Certified Products Get Installed
- Fire and Smoke Dampers: Best Practice Design Tips
- Introducing the Fan Energy Index
- Introducing High Performance Air Systems
- Louvers Requirements for Hurricane Prone Regions
- Understanding the ANSI/AMCA Standard 500-L Tests
- How to Specify AMCA-Certified Sand Louvers
- Ceiling Dampers Explained
- Impact of Fire-Sprinkler Trade-offs on Occupant and Building Safety
- Derivation of the Fan Laws

Michael Ivanovich

Senior Director, Global Affairs

Covid-19 Research



Purpose

- Respond to existing and future COVID guidance from government agencies, customer companies, health institutions, etc.
 - Centers for Disease Control
 - National Institute for Occupational Health and Safety (NIOSH)
 - Taylor Engineering
 - ASHRAE
- Original guidance was vague, anecdotal, and conflicting
 - Turn fans off; remove fans from building
- New guidance seems to cover small-diameter fans only
 - Still anecdotal - does not seem tied to research
- Some recent research on small-diameter fans (Singapore study)
 - Has support with laboratory measurements
 - AMCA modeling is more detailed, but no measurements

AMCA Unducted Fan Study

- Air curtains, ~~circulating fans~~, and large diameter ceiling fans
- Need credible research to counterpoint guidance
 - Externally reviewed by building and health experts from start to finish
 - Reduce risk to public and AMCA members from bad guidance
 - Droplets and aerosols modeled
- Same research approach used for air curtain energy studies
 - AMCA HQ + cost-sharing manufacturers
 - Highly successful for advocacy in model energy codes and standards
- USA focus, unless Regional Steering Committees ask for it
 - Other regions have different buildings, climates, guidance

AMCA Unducted Fan Study

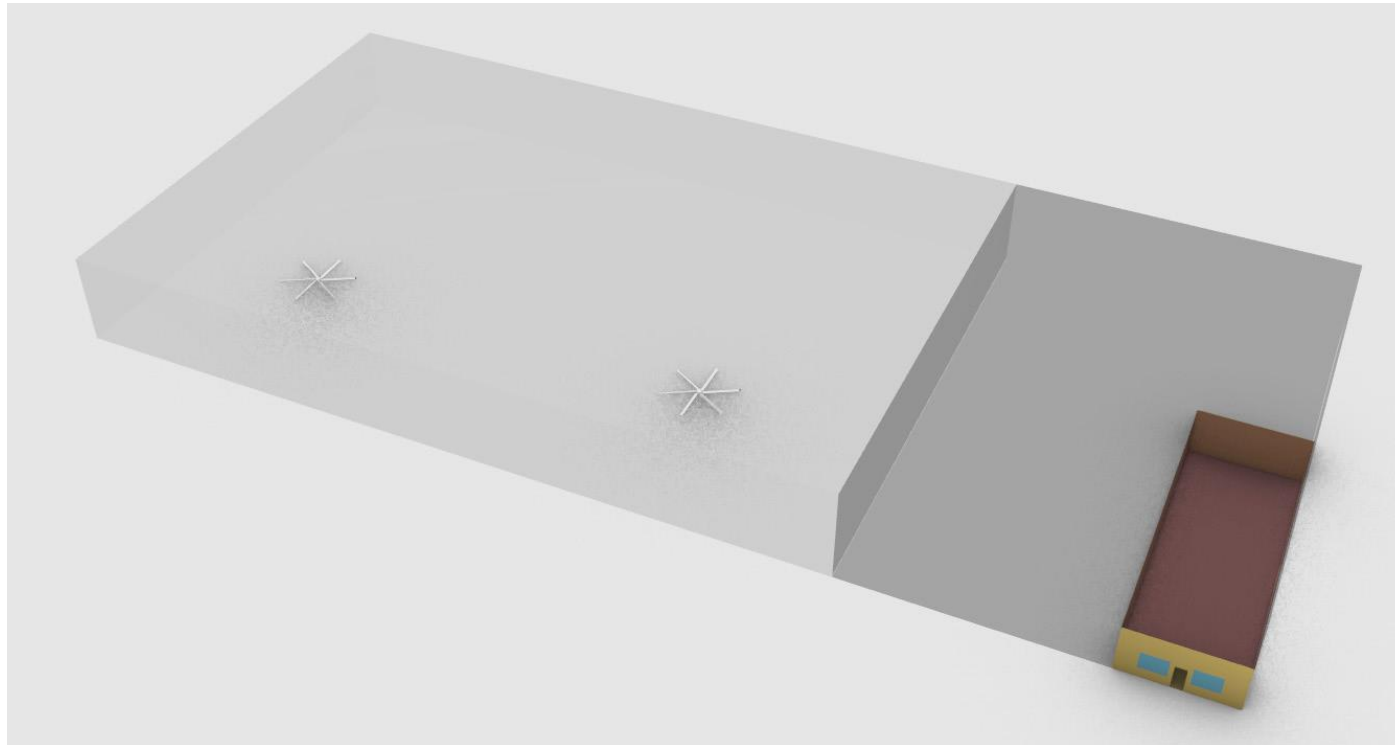
- Science Team (Peer Review and Model Development)
 - W. Bahnfleth, PhD, PE, Chair of ASHRAE Epidemic Task Force;
 - P. Wargocki, PhD, Chair of ASHRAE ETF Science Applications Committee
 - P. Raftery, PhD, University of California Berkeley Center for the Built Environment
 - L. Wang, PhD., Concordia University Montreal (same principal inves. for air curtains)
 - G. Sheard, PhD, Fan Design/Modeling Consultant

Industry Team – AMCA Members & Staff

- Project Manager:
 - Michael Ivanovich, AMCA International
- Air Curtains:
 - Frank Cuaderno, Mars Air Systems
 - David Johnson, Director–Engineering Group
 - Brian Jones, Powered Aire
- Ceiling Fans:
 - Christian Taber, Big Ass Fans
 - Marc Brandt, Hunter Industrial
 - Mike Wolf, Greenheck
 - Eddy Boyd, MacroAir
- Government Affairs:
 - Tom Catania, Consultant to AMCA
- AMCA Affairs:
 - Mark Stevens, AMCA International

LDCF Building: Midsize Warehouse

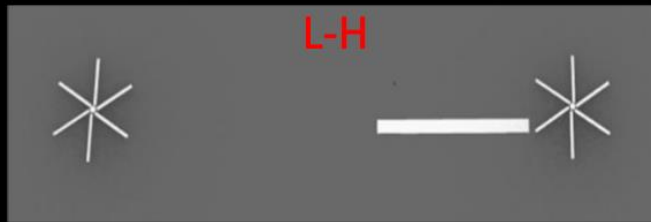
- U.S. DOE prototype building
- Same library used for air curtain study
- Typical application; large market
- Relatively simple geometry
- Can have more complex scenarios later



Location Description

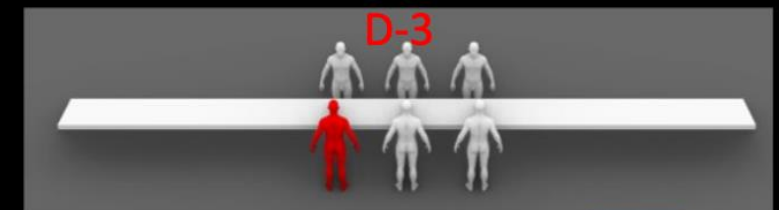
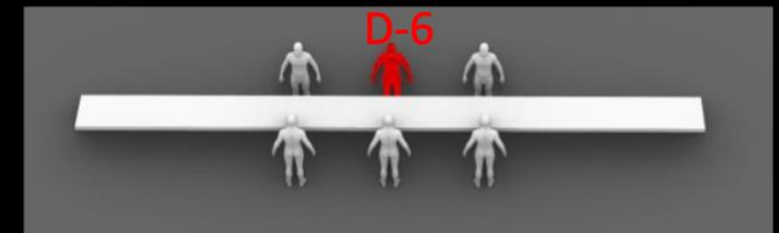
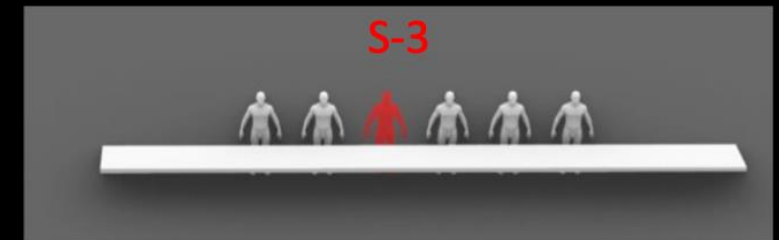
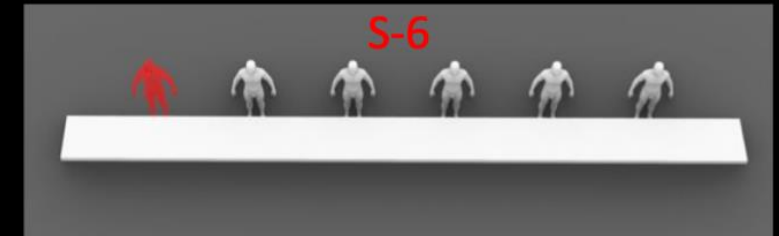
Packing line location

M=Middle L=Left U=under V=Vertical H=Horizontal



Worker location

D=double row S=single row 6=6 ft 3=3 ft



Slide 5

Other Scenarios

- Warehouse racking, no racking
- Reverse Flow
- No fan, 20% speed, 100% speed

Status

- Ceiling fans:
 - Foundational science and modeling research done
 - Modeling done; 116 scenarios modeled
 - Final report near completion (June)
 - Science Team Review (June)
 - Member Team Review (Big Ass Fans, Greenheck, Hunter Industrial, MacroAir) (July)
 - NARSC Approval (July)
 - White Paper Based on Final Report: Policy Guidance (July/August)
 - Marketing Committee
 - AMCARC
 - Send to Policy Arenas
 - Public Webinars
- Air Curtains:
 - Proposal Development underway
 - Project will run much faster

North America Advocacy

Christian Taber

NA Region Air Movement Advocacy
Committee
(AMCARC), Chair

Advocacy



Outline

- U.S. Dept. of Energy
- Model Energy Codes and Standards
- State Energy Codes and Regulations
- Advocacy Outreach
- Committee Infrastructure
- Recent code hearings (ICC Group A & UMC)

U.S. Dept. of Energy

- Request for Information (RFI), May 10, 2021: **Comments submitted**
 - Use of AMCA 214 and definition of 'fan'
 - **Signals DOE is going to re-start commercial and industrial fans and blowers regulation**
 - **Prompted AMCA to withdraw petition to re-start test-procedure (ONLY) rulemaking**
- RFI, May 5, 2021: Early Review of ceiling fan energy standard; includes Large-Diameter Ceiling Fans
 - **Comments being developed**
 - **Deadline for comments is June 28, 2021**
- **Final Rule, May 27, 2021: Ceiling Fan Energy Index became enforceable May 27, 2021**
 - Applicable members need to change ratings and determine compliance

U.S. Dept. of Energy

- Notice of Proposed Rule, April 12, 2021: **Joint comments submitted**
 - DOE seeking to change “rules” by which they develop and administer efficiency regulations
 - Last updated in Feb. 2020; Biden Admin seeking to make more favorable to DOE and advocates
 - AMCA collaborating with AHRI, AHAM, and other industry organizations

Model Energy Codes and Standards

- FEI now in:
 - ASHRAE 90.1-2019
 - International Energy Conservation Code 2021
 - ASHRAE 189.1-2020
 - International Green Construction Code 2021
 - Proposed for IAPMO Uniform Mechanical Code, App. E
- Air Curtain addendum proposed for ASHRAE 90.1-2022
 - Fixes several errors
 - Awaiting full-committee vote before public review
 - Developing parallel proposal for IECC-2024
- Large Diameter Ceiling Fans
 - 90.1 addendum will be proposed for IECC-2024
 - CFEI will be proposed for ASHRAE 90.1, IECC-2024
 - Other IECC-2024 proposals

State Energy Codes and Regulations

- California
 - Title 20 energy standard (appliance efficiency regulation)
 - Started in January 2017
 - Test procedure will be based on AMCA 214
 - Awaiting second draft “staff report” (regulation) in late 2021
 - California must finish within 12 months of next report
 - Title 24 energy code
 - FEI will be in 2022 edition; third-party certification will be required
- FEI in Florida via 2018 IECC but using 2021 IECC fan provision
- FEI in Oregon via ASHRAE 90.1-2019
- FEI proposed for Connecticut

Advocacy Outreach

- Websites
 - www.amca.org/LDCF launched to help make AMCA 230-15 erratum and CFEI information more available
 - www.amca.org/FEI continues to be updated
 - www.amca.org/find-FEI continues to be updated
- Webinars and Seminars
 - May 5, 2021: AMCA hosts IECC webinar for International Code Council
 - May 6, 2021: AMCA-AHRI committees-only webinar on ASHRAE 90.1-addendum
 - May 25, 2021: Member-only Global Update on Fan Regulations
 - China, Mexico, AMCA 230-15, USA
 - July TBD 2021: USA-focused public air movement under development for June/July 2021



LDCF



Scope

Ceiling fans are a product with mandatory minimum efficiency regulations in the United States. These regulations break ceiling fans into product classes by diameter such that large diameter ceiling fans (LDCF) are those having a diameter greater than seven (7) ft. (84.5 in.).

Small diameter ceiling fans are broken into subcategories first by speed (high-speed/small diameter – HSSD) and (low-speed, small diameter – LSSD), and then by into subcategories under LSSD. HSSD fans have commercial/agricultural applications that are within the scope of AMCA. LSSD fans are typically residential

Recent U.S. Dept. of Energy Actions

- December 27, 2020: The Federal Omnibus Bill signed by President Donald Trump contained the Energy Act of 2020, which contained the Ceiling Fan Improvement Act in Section 1008. The Act changes the cfm/W regulatory metric for LDCF to Ceiling Fan Energy Index (CFEI).
- Download PDF of Ceiling Fan Improvement Act
- May 5, 2021: A "Technical Erratum Notification" was issued by AMCA

Advocacy Outreach

- Education and Training modules under development (Robb/Lisa)
 - FEI training module nearing completion
- White Papers
 - Soon: Templates for State Energy Codes Adopting FEI from ASHRAE 90.1 or IECC
 - Soon: Public: AMCA 230-15 erratum and CFEI white paper
 - Soon: Member-Only: AMCA 230-99 white paper

Committee Infrastructure

- AMCARC merged with Fan Regulation Committee, per Board-directed committee reorganization
- AMCARC subcommittees to delegate broad committee scope
 - Energy Efficiency
 - Energy codes, standards, and regulations
 - Product Safety
 - UL standards, etc.
 - Human & Environmental Health
 - California Prop. 65
 - Application Human & Environmental Health
 - ASHRAE 62.1 and COVID guidance
- If interested, email agunzner@amca.org

ICC Group A Cycle updates

- (includes IBC sections, IMC, IPMC, other codes)
- AMCARC considered proposals for Jan. 2021 deadline, which were not ultimately approved
- Staff & AMCARC reviewed ICC monograph
 - Working groups prepared responses for Committee Action Hearing (CAH)
- Public comments are due July 2

- **For more information, stay tuned for a Member Alert about an upcoming webinar on AMCA's code advocacy.**

ICC CAH Results – AM-related proposals

Topic	AMCA Position	AMCA – Win/Loss
Removal of 'insect screens' in new construction.	Oppose	W
Modifies motor-vehicle-related occupancies.	Oppose	W
Adds HVI 916 to AMCA 210 as an alternative test method for residential exhaust equipment.	Opposed, but Support floor mod	W
Return air openings - modifies existing Return air for 'heating or air-conditioning systems'.	Support & support floor mod	W
Codifies the requirement specifically for mechanical exhaust ventilation, removing the option for natural ventilation.	Support	W

WINNING!!!

IAPMO UMC updates

- AMCA worked within ASHRAE procedures to bring specific new 90.1-2022 addenda to this code 'early'
 - Coordination with other stakeholders, where possible
 - TC reviewed proposals at recent meeting
 - Public comment due Q3-Q4 2021
-
- **For more information, stay tuned for a Member Alert about an upcoming webinar on AMCA's code advocacy.**

UMC TC Meeting Results – AM-related proposals

Topic	AMCA Position	AMCA – Win/Loss
Proposed a new section that would have removed some CAV/VAV dampers and affected related air balancing.	Oppose	W
Proposed to lessen ventilation requirements in storage facilities due to racks and other areas.	Oppose	W
External proposal that would add testing requirements for AMCA 220 and AMCA 260.	Support – Floor mod	L
Updating UMC with ASHRAE 90.1 changes. Includes language for FEL in Appendix E.	Support	W
Makes updates per addenda a and d from ASHRAE 90.1-2019. Advocated by AMCA, working with ASHRAE procedure.	Support	W

WINNING!!!

Multiple Arenas Active Simultaneously

- ICC Group A
- IAPMO
- ASHRAE
- US DOE
- State Energy Codes
- UL
- prepare for ICC Group B

WE NEED HELP!!!

Resources – Codes

- 2021 ICC Group A Complete Monograph
 - <https://cdn-web.iccsafe.org/wp-content/uploads/2021-Group-A-Complete-Proposed-Changes-compressed.pdf>
- ICC Report of the Committee Action Hearing
 - <https://cdn-web.iccsafe.org/wp-content/uploads/GROUP-A-2021-REPORT-OF-THE-COMMITTEE-ACTION-HEARING.pdf>
- 2021 UMC TC Meeting Monograph
 - <https://codes.iapmo.org/docs/2024/UMC/2021%20UMC%20TC%20Meeting%20Monograph.pdf>
- UMC TC Meeting Report – not yet available

Contact

- Michael Ivanovich, Senior Director, Global Affairs
 - mivanovich@amca.org
- Aaron Gunzner, Advocacy Manager
 - agunzner@amca.org

To join AMCARC – send email to agunzner@amca.org

- No code/standard-specific experience necessary

James Carlin

NA Region Air Control
Advocacy Committee
(aka ACCARC), Chair

Advocacy



Outline

- NFPA 80 & 105 2nd Draft TC meeting - October 2020
- ICC Group A Cycle updates
 - Summary results of Committee Action Hearing
 - AMCA proposals
 - External proposals
- IAPMO UMC TC Meeting updates
- NFPA 90A, 101, 5000 proposals
- 2021 NFPA Technical meeting

NFPA 80 & 105 2nd Draft TC meeting – Oct. 2020

- Few dozen public comments seeking to remove remote inspection allowance
- Some TC members (many also on ACCARC) successfully moved to have these public comments resolved

ICC Group A Cycle updates

- ACCARC submitted proposals for Jan. 2021 deadline
- Staff & ACCARC reviewed ICC monograph
 - Working groups prepared responses for Committee Action Hearing (CAH)
- Public comments are due July 2

- Following slides – summary tables of results
 - **For more information, stay tuned for a Member Alert about an upcoming webinar on codes.**

CAH Results – AMCA proposals

Proposal #	Topic	AMCA Position	Committee action	AMCA – Win/Loss
FS88	Proposal to prevent MEP controls and wiring from being run through dampers.	Support	Approved as modified by HIRSCHLER-2	W
FS93	Removal of a static ceiling radiation damper exception.	Withdrawn by AMCA; revisit in public comment, working with proponents of related proposals.	Disapproved	-
PM22	Adds ‘duct and air transfer openings’ section from IFC to IPMC.	Support	Approved as submitted	W
F61	Adds NFPA 80 & 105 to ‘Fire Protection System Maintenance Standards’ tables in both IFC and IPMC.	Support	Approved as submitted	W
F96	Adds “in accordance with NFPA 80 and NFPA 105” to damper testing requirements.	Support	Approved as submitted	W

CAH Results – Other AC proposals

Proposal #	Topic	AMCA Position	Committee action	AMCA – Win/Loss
FS56	In penthouse mechanical rooms, deletes “Ductwork in the shaft shall be connected directly to HVAC equipment.”	Oppose	Disapproved	W
FS89	Fire and smoke damper access: provide a removable duct section that functions without the use of tools.	Oppose	Disapproved	W
FS90	Modified exception in shaft enclosures that are permitted to be penetrated by ducts and air transfer openings.	Oppose	Disapproved	W
FS94	Change to static ceiling radiation damper exception.	Oppose	Disapproved	W
FS95	Changes to static ceiling radiation damper exceptions.	Oppose	Disapproved	W
M17	Intake opening location: new requirement for dwelling unit outdoor air ventilation system intake openings.	Opposed, but Support floor mod	Disapproved (both original proposal and floor modification)	W

ICC Group A Cycle resources

Related links:

- 2021 ICC Group A Complete Monograph
 - <https://cdn-web.iccsafe.org/wp-content/uploads/2021-Group-A-Complete-Proposed-Changes-compressed.pdf>
- ICC Report of the Committee Action Hearing
 - <https://cdn-web.iccsafe.org/wp-content/uploads/GROUP-A-2021-REPORT-OF-THE-COMMITTEE-ACTION-HEARING.pdf>

IAPMO Uniform Mechanical Code TC Meeting updates

- Staff & ACCARC reviewed UMC monograph
 - Working groups prepared responses for TC Meeting
- Public comments are due Q3-Q4 2021

- Following slide – summary table of results
 - **For more information, stay tuned for a Member Alert about an upcoming webinar on codes.**

Results - UMC TC Meeting

Item #	Topic	AMCA Position	Committee action	AMCA – Win/Loss
85	Deletes reference to ASCE 7 in Hurricane Prone Regions/Louvers section	Monitor	Accepted as submitted	-
96	Add language for ‘corrosion-resistant’ to screens, and adding louvers to the requirement (not accurately, per ACCARC members).	Oppose	Accepted as modified; removed language “or louver”; now only applies to screens.	W
167	Revises Ceiling Radiation Dampers and references ASTM E119 and UL 263	Monitor/support	Accepted as submitted	W
168	New definition for Corridor Damper and new language for Combination Fire/Smoke Dampers.	Monitor/support	Accepted as submitted	W
169	Adds testing and inspection of dampers; references NFPA 80 and NFPA 105.	Support	Accepted as modified	W
235	ASHRAE 62.1 updates and other improvements. ACCARC louver working group pointed out language in ASHRAE 62.1 that should be addressed.	Monitor/oppose with follow up	Rejected	W
332	Makes latest updates to the AMCA standards that are referenced in Table 1701.1.	Support	Accepted as modified; fixed AMCA 550 revision reference.	W

IAPMO UMC TC Meeting resources

Related links:

- 2021 UMC TC Meeting Monograph
 - <https://codes.iapmo.org/docs/2024/UMC/2021%20UMC%20TC%20Meeting%20Monograph.pdf>
- UMC TC Meeting Report – not yet available

NFPA 90A, 101, & 5000 proposals

- Proposals were submitted 6/1/2021
- Focused on:
 - Clarifying/aligning damper requirements
 - Adding corridor dampers & ceiling radiation dampers language
 - Details on fusible links & heat-responsive devices
 - Preventing MEP controls & wiring from running through dampers (similar to ICC proposal)

2021 NFPA Technical meeting

- 2021 NFPA Technical meeting (June/July 2021)
 - **Action item** – responding to motion to remove remote inspections in NFPA 80
- AMCA Member Alert to be distributed soon
- If you are already an NFPA member and have not yet notified AMCA staff, please email agunzner@amca.org

2021 NFPA Technical meeting

- NFPA Meeting timeline →
 - **May 19-July 2: Registration for Voting**
 - Registration closes 12 p.m. ET on July 2
 - **June 14-25: Electronic Debate**
 - Debate closes 8 p.m. ET on June 25
 - **June 28-July 2: Voting of CAMs**
 - Voting concludes 8 p.m. ET on July 2
 - **July 6: Posting of Voting Results**
- Related links:
 - [nfpa.org/technical-meeting](https://www.nfpa.org/technical-meeting)
 - https://www.nfpa.org/assets/files/AboutTheCodes/80/A2021_Motions_Committee_Report.pdf

Contact

Please email:

- Michael Ivanovich, Senior Director, Global Affairs
 - mivanovich@amca.org
- Aaron Gunzner, Advocacy Manager
 - agunzner@amca.org

Joe Brooks

Director of Publications &
Standards

Standards &
Publications Updates
and News



AMCA's Publications & Standards

Preparation		Development New or Rev.		Approval	Publish
(2 months)		(2 - ? Months)		(2 – 3 Months)	(1 month)
300	280	201	301	203	220
540	340	11	320	511	
		211	500-L		
		240	512		
		250	550		
		270			
4		11		2	1

AMCA Publications & Standards Preparation

- AMCA 300 – Method of Test (MOT) Fan Sound Power Level, Reverberant Room Method
- AMCA 540 – MOT, Louver Impact Testing
- AMCA 280 – MOT, Wind Resistance for Rooftop Fans
- AMCA 340 – MOT, Large Diam. Ceiling Fan Sound Measurement

AMCA Publications & Standards Under Development/Revision

- AMCA 11 – CRP, Operating Manual revision
- AMCA 201 – Publication, Fans and systems
- AMCA 211 – CRP, Product Rating Manual for Fan Performance
- AMCA 240 – MOT, PPV Air Performance
- AMCA 250 – MOT, Jet Fans
- AMCA 270 – MOT, Fan Array Air Performance (New)

AMCA Publications & Standards Under Development/Revision (cont'd)

- AMCA 301 – Calculation, Fan Sound Ratings from Lab. Test Data
- AMCA 320 – MOT, Fan Sound Power Level, Sound Intensity Method
- AMCA 500-L – MOT, Louvers
- AMCA 512 – Listing Program, Louvers
- AMCA 550 – MOT, Louvers, High Velocity Wind Driven Rain

AMCA Publications & Standards Approval Phase and Published

Approval Phase

- AMCA 203 – Field Performance Measurement, Fan Systems
- AMCA 511 – CRP, Product Rating Manual for Air Control Devices

Publish Phase

- AMCA 220 – Air Curtain Unit, MOT

ISO Standards

New Work Items (NWIP)	Preparation (WD)	Committee (CD)	Enquiry (DIS)	ISO CS (FDIS)	Publish
		(2 – 3 Months)	(8 – 16 weeks)	(8 weeks)	(1 month)
13350 13347-1 13347-2 13347-3 13347-4	13351	(12759-1)	(5801 Amd) (13348) 13349 (12759-6) 24660	(13350)	12759-5
5	1	1	5	1	1

() = exceeded ISO time limit and needed restart

Publications & Standards

What's New

- AMCA & Div. engr. standards committee gone – Now only product engineering committees
- ISO/TC117 – IEC/TC22 Joint Advisory Group being formed. Armin H. appointed Convener (may replace CAISEMS)
- System Effects on fan power – May be started
- Air Curtain Unit – ISO Technical report on ACU effectiveness testing – done soon
- Erratum on AMCA 230 published (air density conversion)
- Publications & Standards web page under development

Nazme Mohsina

Technical Director

**CRP and Lab
Update**



CRP Update

- Product Certification
 - 4061 certified product lines, 304 licensees
- Louver Listing Program
 - 136 louvers, 14 listees
- ENERGY STAR Certification
 - 77 models, 5 licensees
- FEI Certification
 - 479 product lines, 20 licensees

CRP Growth

	2020	2021	Growth
Certified products	3927	4061	3%
CRP Participants	288	304	6%
Louver Listed products	127	136	7%
ENERGY STAR models	47	77	64%

Laboratory Update

- Laboratory Accreditation Program
 - 69 Labs
- Large Diameter Ceiling Fans Testing
- Jet Fan Testing
 - Product certification
 - Laboratory accreditation
- ASHRAE V-Belt Project
- Virtual Witness Testing
- Leadtime

What's next?

- Certified Ratings Program
 - AMCA 11
 - AMCA 211
 - AMCA 511
 - AMCA 512
- Lab 2x2 Projects
 - Line balance
 - Threshold Reynold Number testing
 - WDR test rig improvement
 - Economizer Damper testing

Next Meeting

Mark Stevens

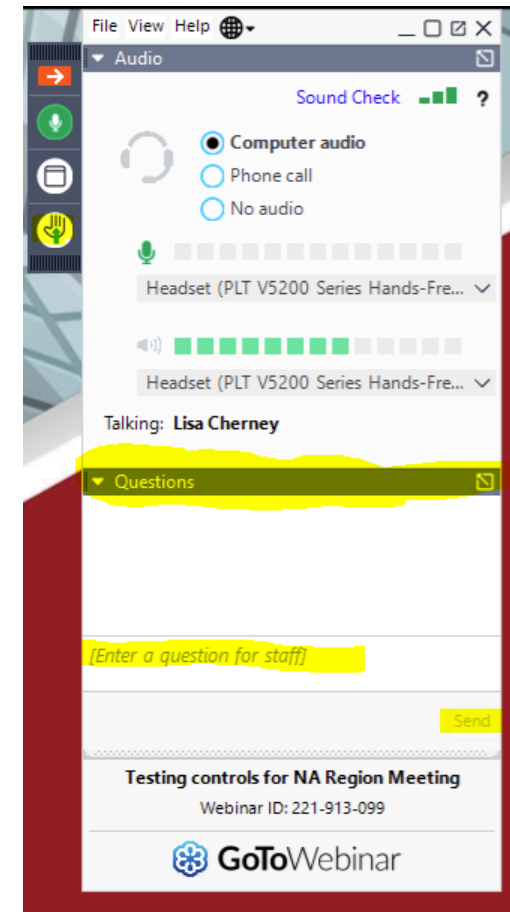
Executive Director

Open Town Hall
Meeting Q & A



Questions

- Audience will be muted during the program.
- Questions can be submitted anytime via the GoToWebinar platform and will be addressed at the end of the presentation. To submit a question:
 1. On the attendee control panel along the side of your screen, select the “Questions” drop down option. →
 2. Type your question in the text box and begin with the name of the person to whom your question is directed. →
 3. Click “Send”. →.



Adjournment

Thank you for attending!