







IEEE IAS Atlanta Chapter Meeting

09/19/22

Agenda

- ▶ Introduction to Officers 2022-2023
- ▶ Membership Report
- ▶ Financial Report
- ▶ Current Initiatives and Plans for Future Meetings
- ▶ Effects of Global Supply Chain Shortages and Long Lead-Times on Current Projects
- ▶ Open Discussion and Q&A

Introduction Officers 2022-2023

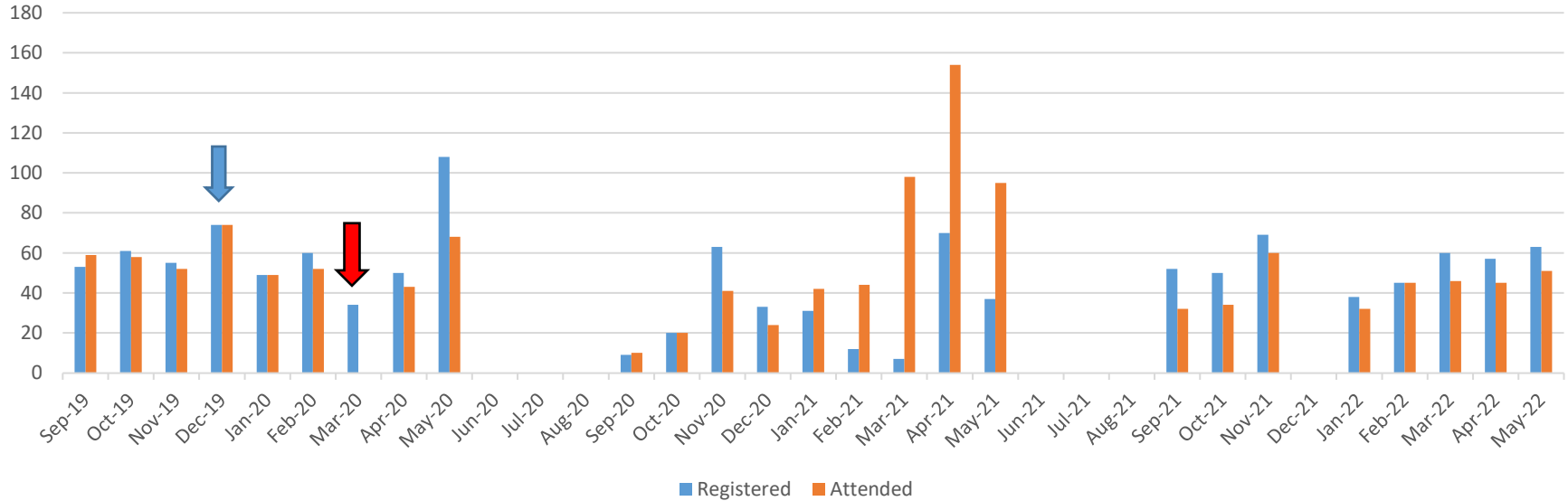
Chairman	Vice Chairman	Treasurer	Secretary
			
Mariano Rojas	Jason Page	Tyler Knight	Carlos Atkins
Cummins, Inc.	Kajima Building & Design Group	Critical Components Inc.	Mangan, Inc.
404-765-5168	404-812-8689	770-933-5511	770-315-7514
mariano.rojas@cummins.com	jpage@kbd.group	tyler@cci.tech	catkins@manganinc.com

Membership Report

- ▶ 371 People on Distribution List
- ▶ 160+ Companies and Organizations Represented
- ▶ Average of 50 people in attendance per meeting

Membership Report – Meeting Attendance

IEEE IAS Atlanta Attendance



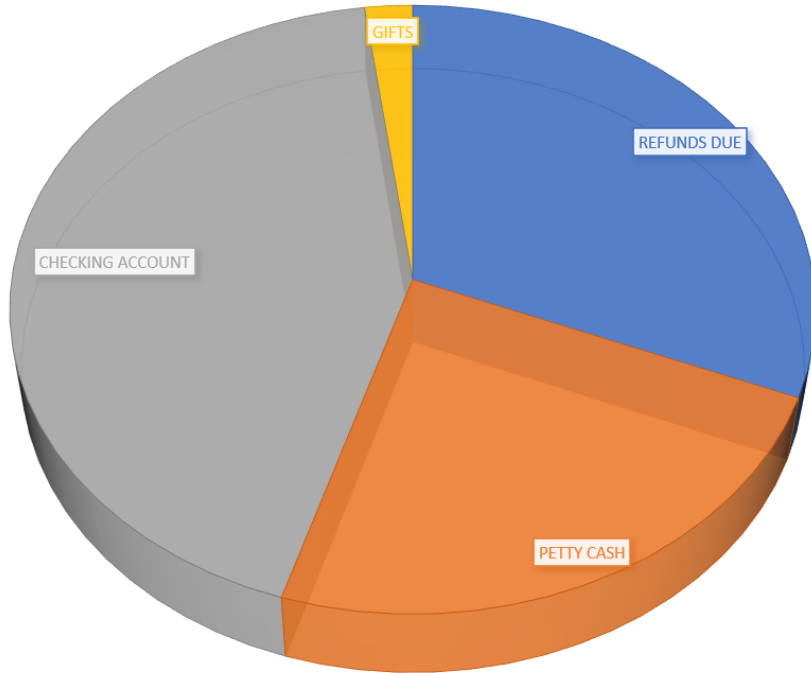
Membership Report – Meeting Attendance

IEEE IAS Atlanta - Member Attendance



Financial Report

Chapter Assets



- ▶ \$2,321 Cash Available
 - Checking: \$ 1,761
 - Petty Cash: \$560
 - Gift Cards: \$50
- ▶ \$739 due to people who registered for March 2020
- ▶ No income/expenses since start of COVID

Financial Report

Cash Flow Initiatives

- ▶ IEEE Section Funding
 - \$200 for Chapter meeting requirements*
 - \$75 bonus for early financial reporting
 - Member rebates: \$3/member, \$4/senior member
 - Optional funds for events
- ▶ Dues for meetings
- ▶ Sponsorship
- ▶ Donations

Current Initiatives & Plans for Future Meetings

Outreach Activities

Community Service Events

Scholarships

Members Open-Forum

Job Openings, Announcements,
Anniversaries, Technical Open-Forums,
etc.

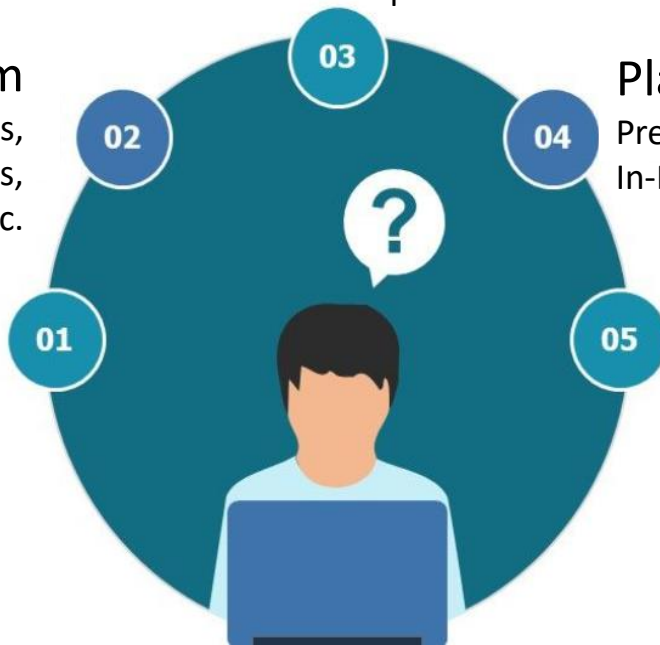
Plans for Future Meetings

Presentation Topics Speaker Recommendations
In-Person Meeting Locations, etc.

Upcoming Events

Community Service Events
Networking Mixer
Social Meetups

Feedback



Current Initiatives and Plans for Future Meetings

- ▶ Meeting announcements, registration
 - Meetings take place 3rd Monday of the month (3rd Tuesday when there is a holiday on Monday – like MLK, President’s Day, etc.)
 - Meetings announced the 1st business day of the month
 - In-Person meeting limited to 20 members
 - Registration open from the 1st of the month until 12:00am the day of the event
 - Virtual meeting link send via email the morning of the event
- ▶ Tutorials
 - Last held on December 2019
 - Planning for tutorial for December 2022 (NEC 2023 Changes)

Current Initiatives and Plans for Future Meetings

- ▶ Scholarships, Sponsorship, Community Service Events
 - 2 to 5 scholarships for students pursuing an Engineering degree
 - Will require us to raise money during monthly meetings
 - Vendor Sponsorship Encouraged
 - Engineering Week (February 19th to 25th, 2023)
- ▶ Networking Social Mixer
 - Scheduled outside of monthly meetings
 - Will require sponsors

Current Initiatives and Plans for Future Meetings

- ▶ Members Open Forum
 - Allow attendees to provide related announcements, opportunities, and asks
 - 5 to 10 mins at the beginning of each meeting
- ▶ How to submit feedback?
 - Presentation topics/recommendations
 - Website: <https://site.ieee.org/atlanta-ias/>
 - Email or call officers

Effects of Global Supply Chain Shortages

Background

- ▶ Global Supply Decreased (COVID-19 Pandemic Restricted Business Activity)
- ▶ Global Firms Rely on Non-Diversified Supply Chains
 - Lean Manufacturing (Just-In-Time Inventory)
 - Reliance on China for various goods
- ▶ Shifts in Consumer Activity
- ▶ Demand Distortions (Bullwhip Effect)
- ▶ Supply Chains are Complex Networks of Interconnected Factors
- ▶ Supply Chain Issues Affect All Sector

Effects of Global Supply Chain Shortages

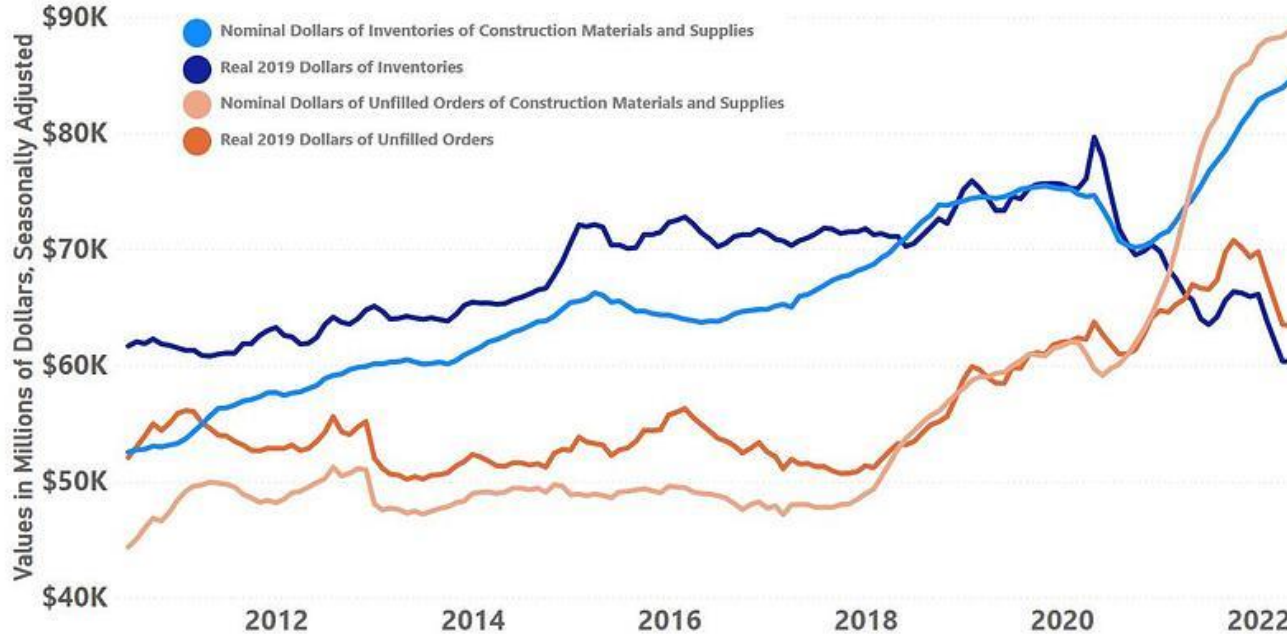
Effects

- ▶ Shortage of Production Capacity Around the World
- ▶ A Vicious Cycle of Scarcity (Raw Materials, Components)
- ▶ Overwhelmed Manufacturing and Logistics
- ▶ Long lead-times
- ▶ Price increases

Effects of Global Supply Chain Shortages

Unfilled Orders and Inventories Up 50% in Dollars, Not So In Actual Product

In a first, the dollar value of unfilled orders has exceeded inventories due to drawdowns and rapid inflation



Source: ConstructConnect

Effects of Global Supply Chain Shortages

How Hard is to Disrupt the Supply Chain?

The Great Toilet Paper Shortage of 1973

- ▶ Harold Froehlich, a congressman, releases a statement saying, 'The next thing we're gonna have to worry about is a potential toilet paper shortage,'"
- ▶ Johnny Carson makes a joke about it during the Tonight Show on 12/19/73
- ▶ People all over the country stormed supermarkets, grabbed as much toilet paper as they possibly could.



From “Remembering the great toilet paper shortage of 1973” from CBS News

(<https://www.cbsnews.com/news/remembering-the-great-toilet-paper-shortage-of-1973/>)

Effects of Global Supply Chain Shortages

How are we dealing with the current situation?

- ▶ Postponing Projects and Purchase Decisions
- ▶ Buying pre-owned equipment
- ▶ Releasing equipment during early stages of design

Effects of Global Supply Chain Shortages

Electrical Supply Chain Projections

Material	Reason for Shortage	Price Change (Delta +/-)	Pre-Pandemic Lead Time	Current Lead Time
Electrical Switchgear, UPSs, & Transformers	Conductor and Steel Shortages	+ 5% - 10%	3-6 months	10-14 months
Panelboards	Conductor and Steel Shortages	+ 10% - 15%	4-10 weeks	2-5 months
Switches, Circuit Breakers, Fuses, Relays, etc.	Shortage of Insulation Resin and Semiconductors	+ \leq 25%	6-8 weeks	10-40 weeks
Conduit Fittings, Metal Conduit, Metal Boxes, etc.	Shortage of Metals and Plastics Fossil Fuels	+ 10% - 30%		
Wires & Cables	Shortages of Copper and Aluminum	+ 2% - 12%		
Generators	Shortage of Steel, Electrical Components	+ 20%	3-6 months	Up to 18 mo

Effects of Global Supply Chain Shortages

Electrical Supply Chain Projections

Material	Recommendation
Electrical Switchgear & Transformers	Consulting with 2nd and 3 rd tier manufactures Pre-order equipment during design phase Consider alternative designs
Panelboards	Stock up and factor 10-15% above current pricing into 30-day project bids.
Switches, Circuit Breakers, Fuses, Relays, etc.	While a slight increase in product availability is likely to return toward the end of Q2, the price for breakers likely to hold or slightly increase in Q2 with potential relief in 2023
Conduit Fittings, Metal Conduit, Metal Boxes, etc.	Stock up and factor 10-15% above current pricing into 30-day project bids. Consider fiberglass conduit as an alternative.
Wires & Cables	

ECMag

<https://www.ecmag.com/section/your-business/managing-your-supply-chain>



How does the Global Supply Chain Shortages affect you?

- ▶ Please share your experience

Open Discussion and Q&A

- ▶ Members Open Forum (Announcements, Opportunities, Asks)



Next Meeting: Monday 10/17/22

