

Welcome to the 2021 GEC Conference! This year's event is fully virtual and can be accessed via the platform at <https://apsgec2021.ispresenting.live>

When accessing the platform please use the latest version of Google Chrome, Microsoft Edge, or Mozilla Firefox.

These instructions are for attendees.



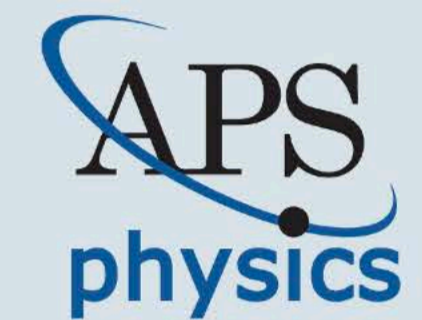
Visit the platform site at:
<https://apsgec2021.ispresenting.live>

Click the log in button.



74th Annual Gaseous Electronics Conference

October 4 - 8, 2021



This platform works best on the latest versions of Google Chrome, Microsoft Edge, and Mozilla Firefox.

The login below will route you through the APS login system. Use the APS account you used to register for the conference to log in.

LOG IN



You will then be directed to enter your APS account credentials.

Click the log in button.

APS physics

Upcoming Events Log In Donate Now

Welcome to My APS

Please log in or create an account to continue.

Attention: We recently upgraded our software on August 1, 2019. If you are logging in for the first time since the upgrade, you will need to reset your password by clicking on "Forgot Your Password?" Your username is the email address you provided APS.

Log In

Email

Password

Log In

[Forgot your password?](#)

[Don't have an account?](#)

Powered by Nimble AMS





Welcome to the 74th Annual Gaseous Electronics Conference

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OPEN THE SCHEDULE

LEARN ABOUT OUR EXHIBITORS

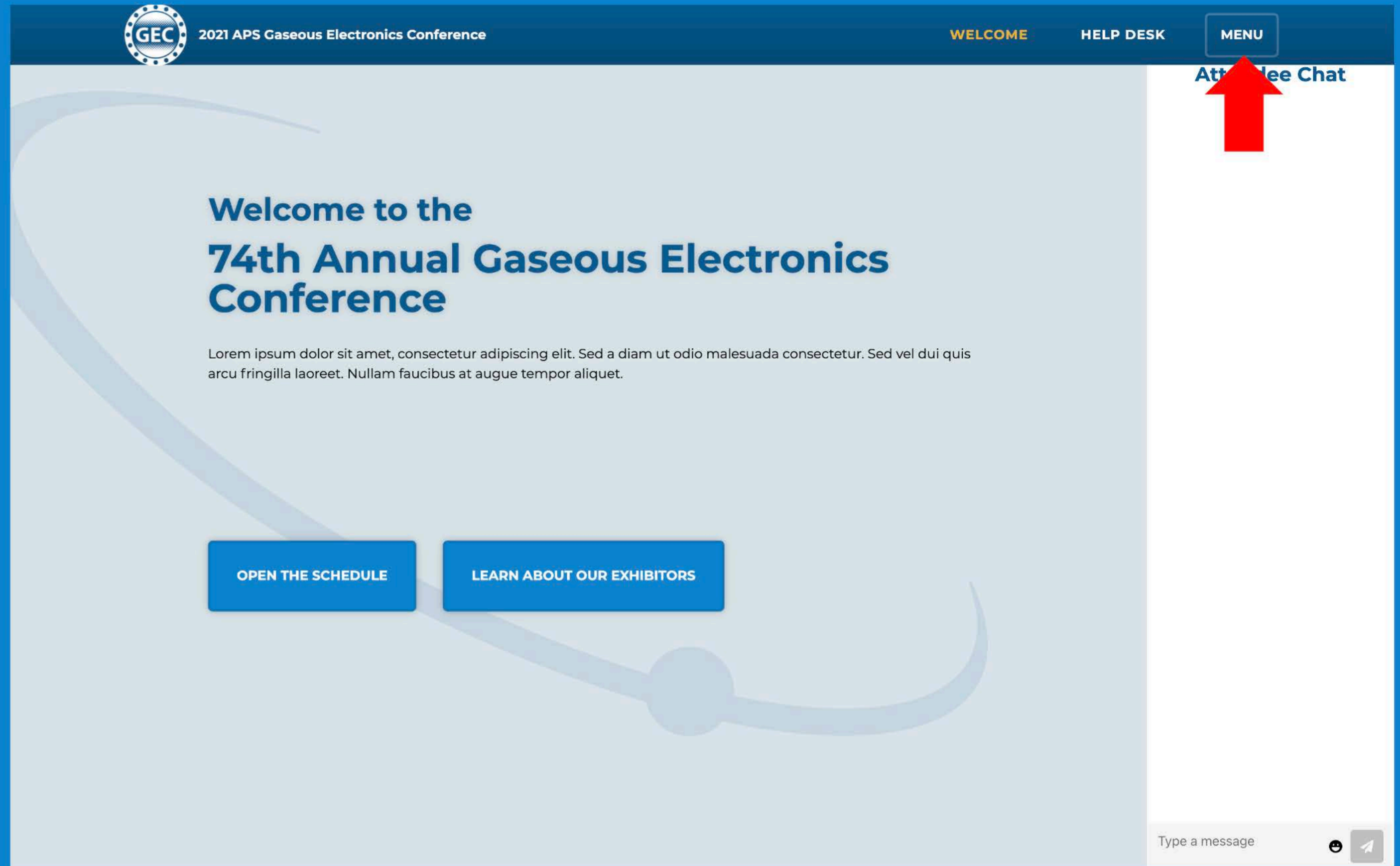
Type a message



Now you are on the
conference site platform

On the right you see a chat
room. Here you can
communicate with everyone
currently on the platform
site.

Click the menu button to navigate the platform.



The screenshot shows the top navigation bar of the website. On the left is the GEC logo and the text "2021 APS Gaseous Electronics Conference". On the right are the links "WELCOME", "HELP DESK", and "MENU". A red arrow points to the "MENU" button. Below the navigation bar, the main content area features a large heading "Welcome to the 74th Annual Gaseous Electronics Conference" and a paragraph of placeholder text. Two blue buttons are visible: "OPEN THE SCHEDULE" and "LEARN ABOUT OUR EXHIBITORS". On the right side, there is a chat window with the text "Attendee Chat" and a "Type a message" input field at the bottom.



Click the schedule button to see the entire conference schedule.

GEC 2021 APS Gaseous Electronics Conference

WELCOME HELP DESK CLOSE

ATTE

SCHEDULE
POSTER SESSIONS
EXHIBITORS
TECH CHECK
SIGN OUT

Welcome to the 74th Annual Gaseous Electronics Conference

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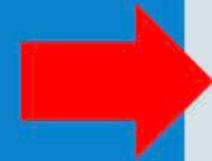
OPEN THE SCHEDULE LEARN ABOUT OUR EXHIBITORS

Type a message





Conference Schedule



- ALL DAYS
 - MONDAY
 - TUESDAY
 - WEDNESDAY
 - THURSDAY
 - FRIDAY
- ALL
 - FAVORITES

Monday, Oct 4

8:00am

AM11

WATCH MEETING FAVORITE

Welcome Remarks

Room: Room 1

8:30am

BM21

WATCH MEETING FAVORITE

Workshop I: Plasma Diagnostics

Room: Room 1

Invited Speakers: Chinwook Chung, Peter Bruggeman, Jean-Pierre van Helden, Yiguang Ju, Uwe Czarnetzki, Zakul-Islam Mujahid, Hyo-Chang Lee, Arthur Dogariu, Stephan Reuter

ATTENDEE CHAT

Type a message



Here you can view the sessions by day.



Conference Schedule

Navigation tabs: ALL DAYS, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY. Filter tabs: ALL, FAVORITES.

Monday, Oct 4

8:00am

Session AM11: Welcome Remarks, Room: Room 1. Includes buttons for WATCH MEETING and FAVORITE. A red arrow points to the FAVORITE button.

8:30am

Session BM21: Workshop I: Plasma Diagnostics, Room: Room 1. Invited Speakers: Chinwook Chung, Peter Bruggeman, Jean-Pierre van Helden, Yiguang Ju, Uwe Czarnetzki, Zakau-Islam Mujahid, Hyo-Chang Lee, Arthur Dogariu, Stephan Reuter. Includes buttons for WATCH MEETING and FAVORITE.

ATTENDEE CHAT

Type a message



Clicking the "Favorite" button on a session will save that session to your profile's favorite list.

Once you have favorited a session, it will appear under the “Favorites” tab. Here you can see all the sessions you have selected as favorites.

GEC 2021 APS Gaseous Electronics Conference WELCOME

ALL DAYS MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY

ALL **FAVORITES**

AM11 WATCH MEETING FAVORITE
Monday, Oct 4: 8:00am-8:30am
Welcome Remarks
Room: Room 1

CT11 WATCH MEETING FAVORITE
Tuesday, Oct 5: 8:00am-10:00am
Plasma Diagnostics: Electrical Diagnostics I
Room: Room 1
Invited Speakers: Valery A Godyak

HW11 WATCH MEETING FAVORITE
Wednesday, Oct 6: 8:00am-9:45am
Atmospheric and High Pressure Plasmas: Jets and Gliding Arcs II
Room: Room 1
Invited Speakers: Pedro Viegas

MR11 WATCH MEETING FAVORITE
Thursday, Oct 7: 8:00am-9:00am

ATTENDEE CHAT

Type a message



When it is time to view a session, click the “Watch Meeting” tab.

GEC 2021 APS Gaseous Electronics Conference WELCOME HELP DESK MENU

Conference Schedule

ALL DAYS MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY

ALL FAVORITES

Monday, Oct 4

8:00am

AM11 **WATCH MEETING** FAVORITE

Welcome Remarks
Room: Room 1

8:30am

BM21 **WATCH MEETING** FAVORITE

Workshop I: Plasma Diagnostics
Room: Room 1
Invited Speakers: Chinwook Chung, Peter Bruggeman, Jean-Pierre van Helden, Yiguang Ju, Uwe Czarnetzki, Zakul-Islam Mujahid, Hyo-Chang Lee, Arthur Dogariu, Stephan Reuter

Type a message

<https://apsgecdev.ispresenting.live/room/room-1>





Concurrent Session 1



PowerPoint Presentation
Goes Here

EXAMPLE SLIDE

In the session virtual room you will see the live session as it takes place.



74th Annual Gaseous Electronics Conference



Clicking the “Chat” tab will open a chat room specific to that session. Please note any questions for the speakers will not be seen if placed here.

The screenshot displays the Zoom meeting interface for the 2021 APS Gaseous Electronics Conference. At the top, the header includes the GEC logo, the conference name, and navigation links for WELCOME, HELP DESK, and MENU. Below the header, the room name is "Room 1" with a placeholder for the current session time. The main content area shows a video player with a speaker on the left and a PowerPoint slide titled "PowerPoint Presentation Goes Here" in the center. The slide also includes the text "EXAMPLE SLIDE". Below the video player, there are logos for APS physics and GEC, and the text "74th Annual Gaseous Electronics Conference". On the right side, there is a chat window with a message from John Hall at 06:44 pm. The bottom navigation bar contains several tabs: TECH SUPPORT, PARTICIPANTS, CHAT, Q&A, and FULLSCREEN. A red arrow points to the CHAT tab.



Clicking the “Q&A” tab will open the area to ask questions directly to the session chair and speakers. Here you may also upvote a question that has already been submitted.

The screenshot shows the Slido interface for a conference session. At the top, the header includes the GEC logo, the text "2021 APS Gaseous Electronics Conference", and navigation links for "WELCOME", "HELP DESK", and "MENU". Below the header, the session is identified as "Room 1" with a placeholder for the current session time. The main content area features a video feed of a speaker on the left and a large PowerPoint slide in the center. The slide is titled "Concurrent Session 1" and "PowerPoint Presentation Goes Here" with a sub-label "EXAMPLE SLIDE". At the bottom of the slide area, the logos for "APS physics" and "GEC" are displayed, along with the text "74th Annual Gaseous Electronics Conference". On the right side, there is a Q&A panel with an "Ask the speaker" input field. Below this, there are two questions: one from "John" (5 days ago) with 2 upvotes, and another from "Andy" (5 days ago). A red arrow points to the upvote button for John's question. At the bottom of the interface, a navigation bar contains icons for "TECH SUPPORT", "PARTICIPANTS", "CHAT", "Q&A", and "FULLSCREEN". A red arrow points to the "Q&A" tab in this bar. A video player at the bottom left shows a progress bar at 0:53 / 1:14. The "slido" logo and an "Ask" button are visible in the bottom right corner of the interface.

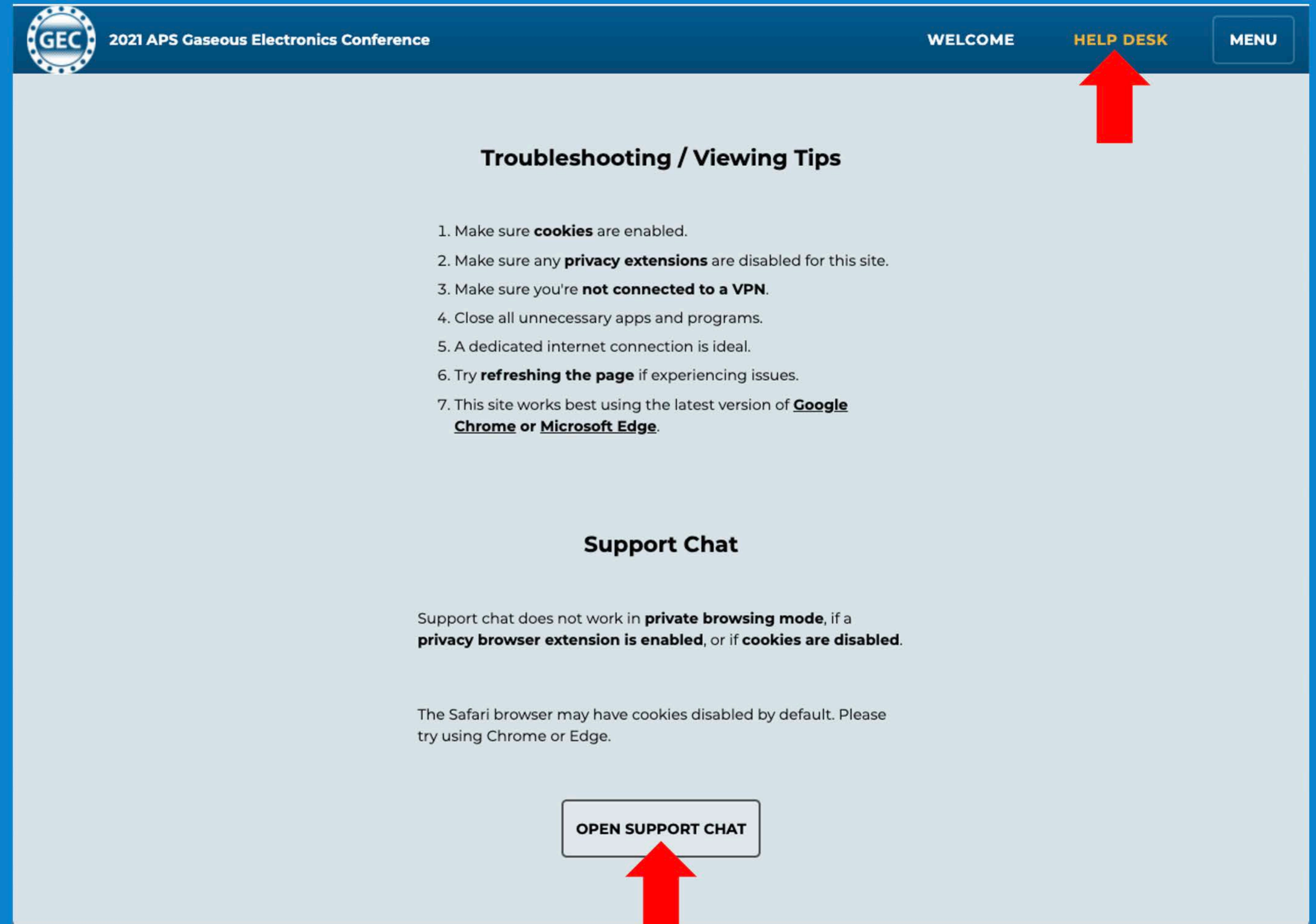


Clicking the “Full Screen” tab will bring the platform into full screen mode. Press “escape” on your keyboard to get out of this view.

The screenshot shows a video player interface for a conference session. At the top left, there is a GEC logo and the text "2021 APS Gaseous Electronics Conference". To the right are links for "WELCOME", "HELP DESK", and "MENU". Below this is a header for "Room 1" with a placeholder "[CURRENT SESSION TIME GOES HERE] CT". The main content area is titled "Concurrent Session 1" and features a video of a speaker on the left and a large PowerPoint slide on the right. The slide has a blue background with the text "PowerPoint Presentation Goes Here" and "EXAMPLE SLIDE" below it. At the bottom of the video player, there is a progress bar showing "0:53 / 1:14" and icons for volume, closed captions, and HD. Below the video player is a navigation bar with buttons for "TECH SUPPORT", "PARTICIPANTS", "CHAT", "Q&A", and "FULLSCREEN". A red arrow points to the "FULLSCREEN" button. The bottom right corner of the video player area features the text "74th Annual Gaseous Electronics Conference" and a GEC logo.



If you need technical assistance at anytime, simply click the “Help Desk” tab. Here you will see some common help tips. If you require more assistance, click “open support chat” and a live support technician will be there to assist you.



The screenshot shows the top navigation bar of the website with the GEC logo, the conference name, and links for WELCOME, HELP DESK, and MENU. The HELP DESK link is highlighted with a red arrow. Below the navigation bar, the page content is divided into two sections: 'Troubleshooting / Viewing Tips' and 'Support Chat'. The 'Support Chat' section includes a button labeled 'OPEN SUPPORT CHAT' with a red arrow pointing to it.

GEC 2021 APS Gaseous Electronics Conference

WELCOME **HELP DESK** MENU

Troubleshooting / Viewing Tips

1. Make sure **cookies** are enabled.
2. Make sure any **privacy extensions** are disabled for this site.
3. Make sure you're **not connected to a VPN**.
4. Close all unnecessary apps and programs.
5. A dedicated internet connection is ideal.
6. Try **refreshing the page** if experiencing issues.
7. This site works best using the latest version of **Google Chrome** or **Microsoft Edge**.

Support Chat

Support chat does not work in **private browsing mode**, if a **privacy browser extension is enabled**, or if **cookies are disabled**.

The Safari browser may have cookies disabled by default. Please try using Chrome or Edge.

OPEN SUPPORT CHAT



To return to the schedule, click the menu tab at the top of the page and select “schedule.” Alternatively you may wish to view poster sessions or the exhibitors.

2021 APS Gaseous Electronics Conference

WELCOME HELP DESK CLOSE

Room 1 [CURRENT SESSION TIME GOES HERE] CT

Concurrent Session 1

PowerPoint Presentation Goes Here

EXAMPLE SLIDE

74th Annual Gaseous Electronics Conference

TECH SUPPORT PARTICIPANTS CHAT Q&A FULLSCREEN

<https://ansaecdev.ispresenting.live/schedule>



Selecting the posters tab will take you to the list. Once the poster has been uploaded you will be able to view them by clicking the “view poster” button.

The screenshot shows the website for the 2021 APS Gaseous Electronics Conference. The header includes the GEC logo, the conference name, and navigation links for WELCOME, HELP DESK, and MENU. The main content area displays a list of posters, each with a title, presenter name, a 'Details' link, and a 'Not Published' status. A 'VIEW POSTER' button is visible next to the first poster, with a red arrow pointing to it. On the right side, there is an 'ATTENDEE CHAT' window with a text input field and a send button.

GEC 2021 APS Gaseous Electronics Conference

WELCOME HELP DESK MENU

Supersonic Hybrid Non-equilibrium Plasma Reactor for Co-Production of Hydrogen and Value-Added Solid Carbons from Methane

Presenter: Andrey Starikovskiy

► Details

Not Published

VIEW POSTER

Variation in hysteresis phenomenon and electron density in Ar/He plasma

Presenter: Minseok Kim

► Details

Not Published

A study on the self-consistent step-wise global model: chamber geometry effect

Presenter: Jae Wang Ban

► Details

Not Published

Highly conductive carbon film deposition by DC and microwave power superposition

Presenter: Hansin Bae

► Details

Not Published

A new atmospheric pressure plasma jet source with two plasma regions

Presenter: Eunseok Choe

ATTENDEE CHAT

Type a message



Inside the poster session you can scroll through the pdf. You may also leave questions and comments that will be seen by all attendees. Check back here later for any answers or additional comments.

GEC 2021 APS Gaseous Electronics Conference

WELCOME HELP DESK MENU

Poster Session Status: On-Demand

John Hall's Poster Title

Presenter: John Hall [DOWNLOAD POSTER PDF](#)

1 ONLINE • Sort By Latest ▾

Ask a question or add a comment...

velit... "There is no one who loves pain itself, who seeks after it and wants to have it, simply because it is pain..."

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris vitae erat nibh. Morbi imperdiet scelerisque massa, non ornare turpis elementum consectetur. Praesent laoreet vitae libero eget pulvinar. Fusce malesuada massa at tincidunt tincidunt. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nam sed tincidunt turpis. Quisque tincidunt dictum augue sed egestas. Ut scelerisque leo sit amet lectus vehicula, et posuere enim porttitor. Fusce porta varius elit vel consequat. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Quisque in ex libero. Nullam augue mauris, blandit sit amet neque eu, viverra congue est.

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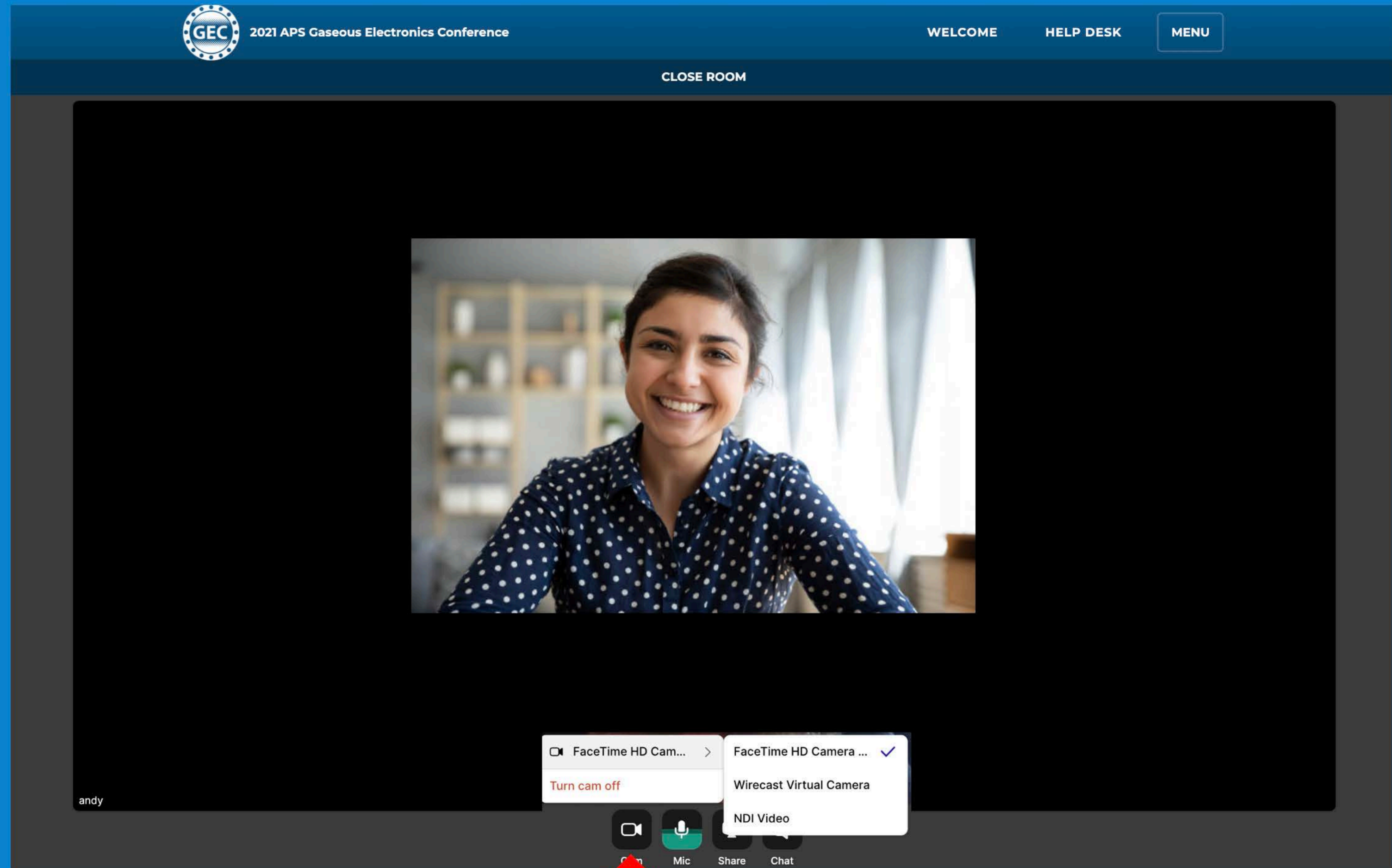
Poster sessions will have the chance to be live with the author presenting via webcam. A “live” button will appear when that is available. Click that to enter. You will have the ability to be seen via your web cam and heard via your microphone if you wish.

The screenshot shows the website for the 2021 APS Gaseous Electronics Conference. The header includes the GEC logo, the conference name, and navigation links for WELCOME, HELP DESK, and MENU. The main content area displays a list of posters, each with a title, presenter name, and a 'Details' link. The first poster, 'Supersonic Hybrid Non-equilibrium Plasma Reactor for Co-Production of Hydrogen and Value-Added Solid Carbons from Methane' by Andrey Starikovskiy, has a 'VIEW POSTER' button and a green 'LIVE' button. A red arrow points to the 'LIVE' button. The second poster is 'Variation in hysteresis phenomenon and electron density in Ar/He plasma' by Minseok Kim. The third is 'A study on the self-consistent step-wise global model: chamber geometry effect' by Jae Wang Ban. The fourth is 'Highly conductive carbon film deposition by DC and microwave power superposition' by Hansin Bae. The fifth is 'A new atmospheric pressure plasma jet source with two plasma regions' by Eunseok Choe. On the right side, there is an 'ATTENDEE CHAT' section with a text input field and a send button.



Make sure your browser has permission to share your camera and microphone.

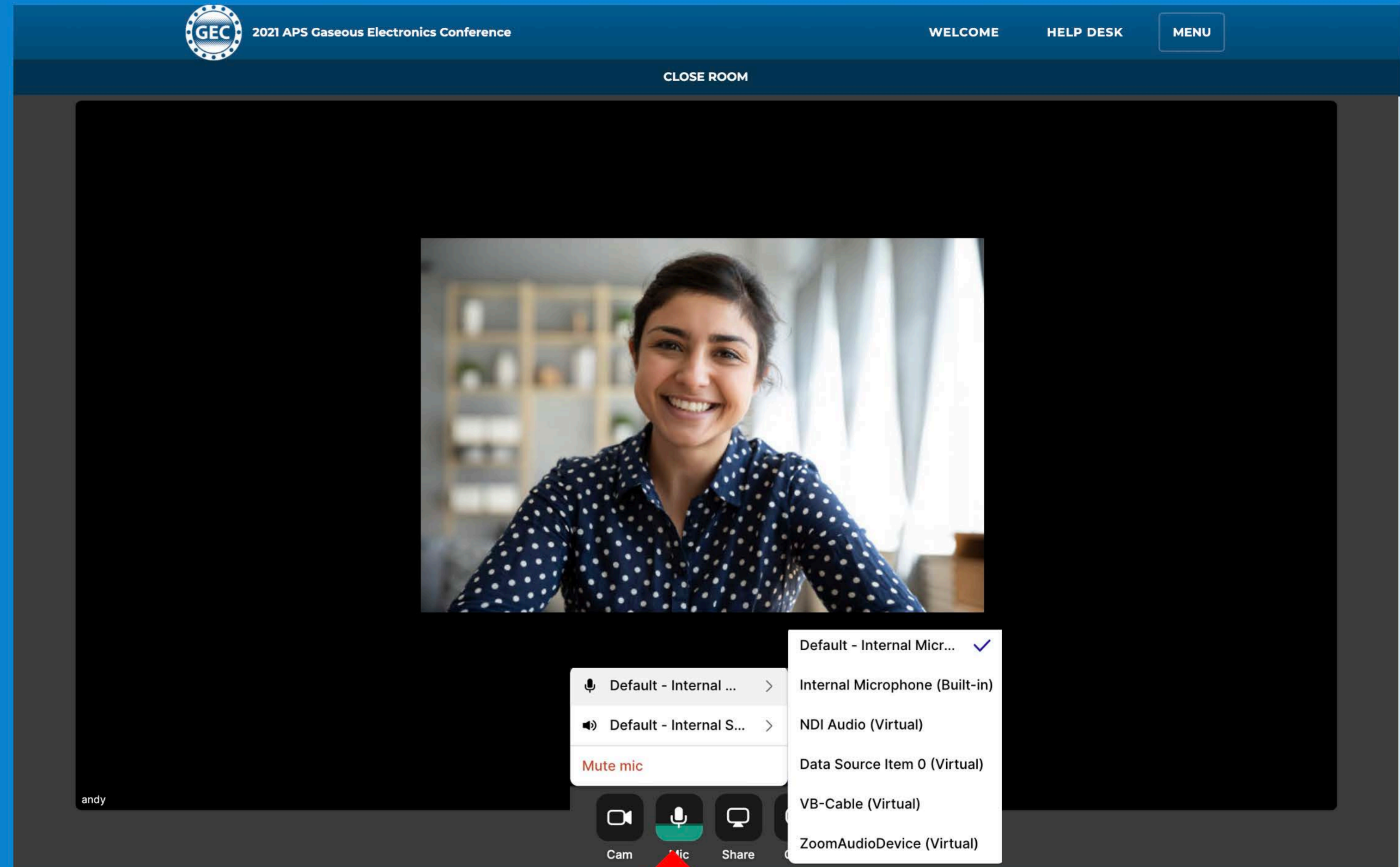
At the bottom of this window click the “Cam” button to select the webcam you wish to use for the live portion of your session.



The screenshot displays a Zoom meeting window. At the top, the header includes the GEC logo, the text "2021 APS Gaseous Electronics Conference", and navigation links for "WELCOME", "HELP DESK", and "MENU". A "CLOSE ROOM" button is positioned below the header. The main area features a video feed of a smiling woman with dark hair, wearing a blue polka-dot shirt. At the bottom of the window, a control bar contains icons for "Cam", "Mic", "Share", and "Chat". The "Cam" icon is highlighted with a red arrow. A dropdown menu is open above the "Cam" icon, showing a list of camera options: "FaceTime HD Cam...", "Turn cam off", "FaceTime HD Camera ..." (selected), "Wirecast Virtual Camera", and "NDI Video". The name "andy" is visible in the bottom left corner of the meeting area.



At the bottom of this page click the “Mic” button to select the microphone and speakers you wish to use for the live portion of your session.



Once inside this live virtual poster session you will see the poster authors pdf screen share, their web cam, and hear them live. The first 11 attendees that enable their camera will be seen by everyone in the room. Your audio will be heard by all attendees in the room if you are not muted.

2021 APS Gaseous Electronics Conference

WELCOME HELP DESK MENU

CLOSE ROOM

A Beginners Guide to Discrete Mathematics Second Edition by W.D. Wallis.pdf

Home Tools A Beginners Guid... x

95 (110 of 442) 91.4%

4.1 Relations 95

Sample Problem 4.2. Suppose $R = \{1, 2\}$, $S = \{3, 4, 5\}$, and $T = \{6, 7\}$. The binary relations τ from R to S , ρ from S to T , and σ from S to T are defined by

$$\begin{aligned}\tau &= \{(1, 3), (2, 4), (2, 5)\}, \\ \rho &= \{(3, 6), (3, 7), (5, 7)\}, \\ \sigma &= \{(3, 6), (4, 6), (4, 7)\}.\end{aligned}$$

What are the binary relations $\tau\rho$, $\rho\sigma$ and $\rho\cap\sigma$?

Solution. The relations are as follows:

$$\begin{aligned}\tau\rho &= \{(1, 6), (1, 7)\}, \\ \rho\sigma &\text{ is not defined as } T \text{ is not equal to } S, \\ \rho\cap\sigma &= \{(3, 6)\}.\end{aligned}$$

Practice Exercise. What are the binary relations $\rho\tau$, $\tau\sigma$ and $\rho\cup\sigma$?

Theorem 21. Composition of binary relations is associative: if α , β , and γ are given binary relations and if either of the compositions $\alpha(\beta\gamma)$ and $(\alpha\beta)\gamma$ exists, then so does the other, and $\alpha(\beta\gamma) = (\alpha\beta)\gamma$.

Proof. Let Q, R, S, T be sets where $\alpha \subseteq Q \times R$, $\beta \subseteq R \times S$, and $\gamma \subseteq S \times T$. Suppose there are some elements $q \in Q$ and $t \in T$ that satisfy $q(\alpha\beta)\gamma t$. Then by the definition of composition there exists an $s \in S$ such that $q\alpha s$ and $s\gamma t$. Again by the definition, there exists $r \in R$ such that $q\alpha r$ and $r\beta s$. But now since $r\beta s$ and $s\gamma t$, it follows that $r\beta\gamma t$, and since $q\alpha r$, we have $q\alpha(\beta\gamma)t$. Hence $(\alpha\beta)\gamma \subseteq \alpha(\beta\gamma)$. A similar argument shows that $\alpha(\beta\gamma) \subseteq (\alpha\beta)\gamma$ and therefore the two compositions are equal. \square

Every binary relation has an *inverse relation*: if α is a binary relation from S to T , so that $\alpha \subseteq S \times T$, then α^{-1} is a binary relation from T to S , or $\alpha^{-1} \subseteq T \times S$, defined by

$$\alpha^{-1} = \{(t, s) : (s, t) \in \alpha\}.$$

In other words, $t\alpha^{-1}s$ if and only if $s\alpha t$.

Sample Problem 4.3. What is the inverse relation of τ , in the preceding Sample Problem?

Solution. $\tau^{-1} = \{(3, 1), (4, 2), (5, 2)\}$.

Practice Exercise. What is the inverse relation of ρ in the preceding Sample Problem?

The inverse of a composition may be expressed as a composition of inverses.

www.TechnicalBooksPDF.com

Cam Mic Stop Chat



If you prefer, you can enter questions and comments in this session via the chat room specific to this live poster session.

You may leave this room at anytime.

The screenshot displays a Zoom meeting interface. At the top, the header includes the GEC logo, the text "2021 APS Gaseous Electronics Conference", and navigation links for "WELCOME", "HELP DESK", and "MENU". A "CLOSE ROOM" button is also visible. The main area features a video feed of a woman with dark hair, wearing a blue polka-dot shirt, smiling. To the right, a chat window is open, showing a message from "andy" that says "Hello!". The chat window has tabs for "Chat" and "People". At the bottom of the meeting window, there is a toolbar with icons for "Cam", "Mic", "Share", and "Chat". A red arrow points directly to the "Chat" icon in this toolbar. The name "andy" is visible in the bottom left corner of the meeting window.



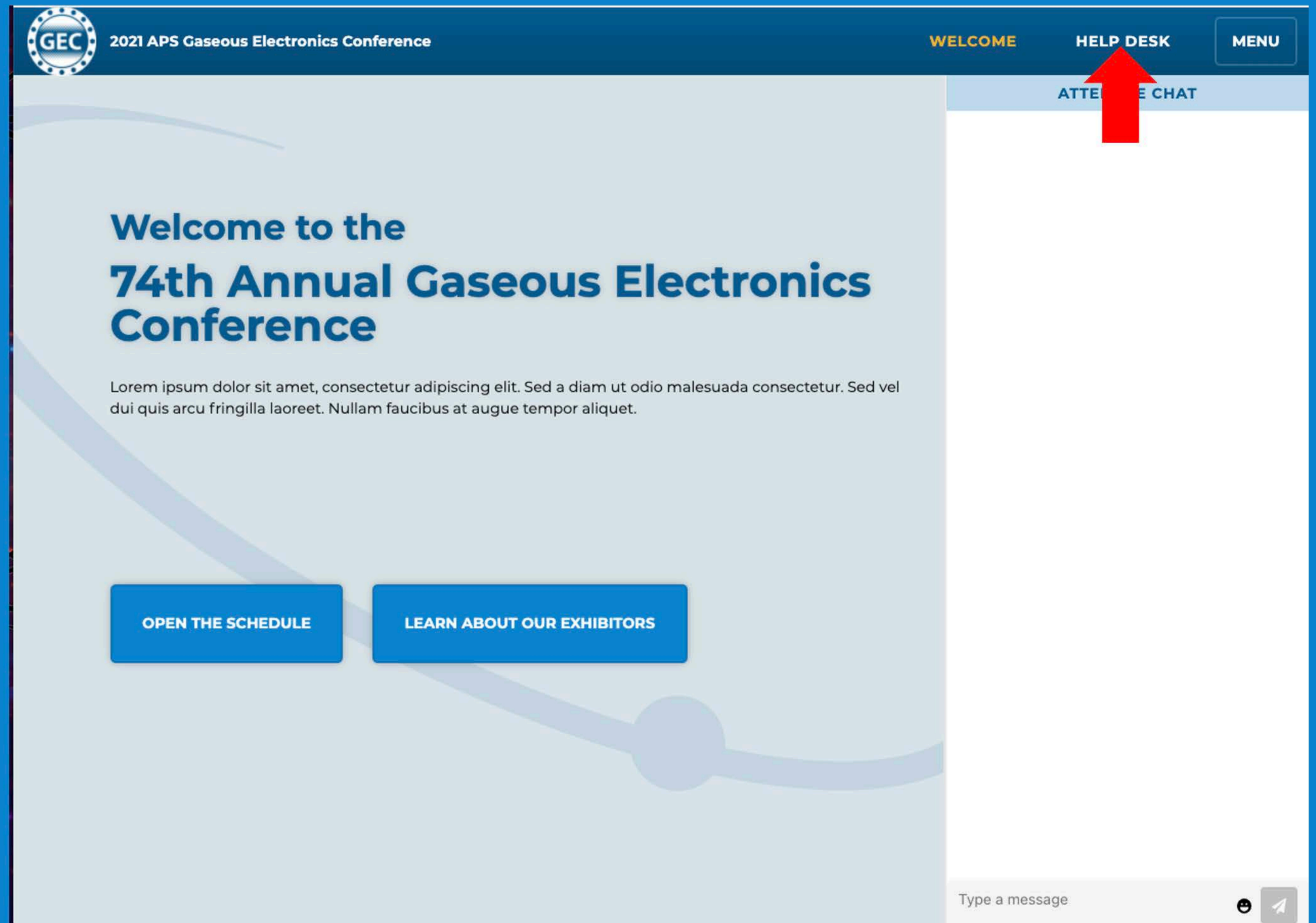
You can find information about exhibitors from the welcome page or the menu tab. There you will be able to view or download any information provided by the conference exhibitors.

The screenshot displays the website for the 2021 APS Gaseous Electronics Conference. At the top left is the GEC logo and the text "2021 APS Gaseous Electronics Conference". On the top right, there are navigation links for "WELCOME", "HELP DESK", and "CLOSE". A dropdown menu is open, listing "SCHEDULE", "POSTER SESSIONS", "EXHIBITORS" (highlighted in yellow), "TECHNICAL CHECK", and "SIGN OUT". A red arrow points to the "EXHIBITORS" option in the menu. The main content area features a large heading: "Welcome to the 74th Annual Gaseous Electronics Conference". Below this is a paragraph of placeholder text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed a diam ut odio malesuada consectetur. Sed vel dui quis arcu fringilla laoreet. Nullam faucibus at augue tempor aliquet." Two blue buttons are visible: "OPEN THE SCHEDULE" and "LEARN ABOUT OUR EXHIBITORS", with a red arrow pointing to the latter. At the bottom left, a browser address bar shows "https://apsaecdev.ispresenting.live/exhibitors". At the bottom right, there is a chat input field with the placeholder text "Type a message" and a send button.



Help is available from every page in the platform if you find you need assistance.

Remember to keep your browser updated to the latest version.



The screenshot displays the website for the 2021 APS Gaseous Electronics Conference. The top navigation bar includes the GEC logo, the conference name, and links for 'WELCOME', 'HELP DESK', and 'MENU'. A chat window is open on the right side, with a red arrow pointing to the 'HELP DESK' link in the navigation bar. The chat window header shows 'ATTENTION CHAT' and a 'Type a message' input field at the bottom.

2021 APS Gaseous Electronics Conference

WELCOME **HELP DESK** **MENU**

ATTENTION CHAT

Welcome to the 74th Annual Gaseous Electronics Conference

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed a diam ut odio malesuada consectetur. Sed vel dui quis arcu fringilla laoreet. Nullam faucibus at augue tempor aliquet.

[OPEN THE SCHEDULE](#) [LEARN ABOUT OUR EXHIBITORS](#)

Type a message



Thank you for joining us at this year's virtual conference!

