

What to expect at vBCI


Platform login:

You will receive an email from the system with a link to access the platform the day the site is available. Simply click the link to receive access and change the temporary password to something you will recall. You can change your password under the Account tab.

Log in via the BCI website. There will be a “Enter vBCI” button. Enter your email address (make sure it is the same one you used when registering for the meeting) and password. If you have forgotten your password, click the forgot my password link to re-set.

Please try to join the meeting prior to the first day to ensure you have access, check out the platform, and review posters ahead of time.

Please note: the platform is best experienced on a larger screen, rather than a handheld device, with Google Chrome being the preferred browser.



BCI SOCIETY

Login

JUNE 7, 2021 - JUNE 9, 2021

[RESET PASSWORD](#) [REGISTER FOR EVENT](#)



Main Conference Lobby:

Once you have logged in, you will first enter the virtual lobby, as seen below. From this lobby click in the left menu to access different spaces. They include Sessions, Poster Hall, Exhibitors, as well as Account where you control your personal information.

Take a look at the accessibility section to adjust for any personal preferences or requirements (language, font sizes or colours, seizure reduction, etc).

The screenshot displays the BCI Society vBCI virtual lobby interface. On the left, a sidebar menu lists various options: Event Admin, Lobby, Sessions, Poster Hall, Networking, Account, Help, Logout, Abstract Book, and Gather Town. A red circle highlights the 'Contact us' button at the bottom of the sidebar, with a blue arrow pointing to it. The main content area features a 'Social Wall' with tweets, a 'Thank you!' message, and a 'REGISTRATION IS Open' banner. A top banner reads 'BCI Society vBCI June 7 - 9, 2021'. On the right, a 'Public Lobby Chat' section shows a message: 'No one has started chatting here yet. Leave a message to be the first!'. A red arrow points to the 'Accessibility adjustments' link in the top right corner.

Please note the chat bubble on the bottom left as it will allow you to chat with the BCI Society staff during the meeting if you have any questions.

Account Settings:

Select Account from the menu and update your personal information such as profile photo, affiliation, website, contact information as well as your settings for notifications. Following the meeting, you are able to download an attendance certificate from the Account section to verify your attendance.

Event Admin

Cendrine De Vis

Lobby

Sessions

Poster Hall

Poster Hall

Networking

Account

Help

Logout

Abstract Book

Gather Town

Contact us

POWERED BY PHEEDLOOP

Organization

Cendrine De Vis

Role

Conference Manager

About Me

Profile Picture

Recommended size: 250 x 250 PNG or JPEG.

Choose file

Browse

Website

Twitter

LinkedIn

Meeting Link

e.g. Calendly

☒ Profile Visible in Networking Section

☒ Send Email Notifications for Event Announcements

☒ Send Push Notifications for Event Announcements

☒ Send Push Notifications for Private Chat Messages

☒ Enable Notification Sounds

Schedule Timezone

Detected Automatically From Browser

PDT

Save Changes

Private Chats

Change Password

Minimum 10 characters, requires a number and a capital letter

New Password

Confirm New Password

Set New Password

Files

Upload PDF files to your profile, public files will be visible in an interactive file viewer

File Name

File Upload

PDF File Under 5 MB

Choose File

No file chosen

Private File

Private files may still be shared with exhibitors and sponsors

Upload

Attendance Certificate

Request a certificate of attendance based on the sessions you attended and responded to the pop-up check-in survey.

Request New Certificate

Sessions:

Sessions provide an overview of all the sessions scheduled to take place. You can review what is currently scheduled, what has already occurred, and what is coming up later. Sessions delivered live will be added to the platform to view on demand a few hours following the session.

Scroll down to view all the sessions. Click on the title a session to learn more about the speakers, session description and to view the chat for that session.

The dates and times will adapt automatically to appear in your time zone location (based upon your IP address).

The screenshot displays the BCI Society event interface. On the left is a blue sidebar with navigation links: Event Admin, Cendrine De Vits (profile), Lobby, Sessions (selected), Poster Hall, Networking, Account, Help, Logout, Abstract Book, and Gather Town. At the bottom of the sidebar is a 'Contact us' button and a 'POWERED BY PHEEDLOOP' logo. The main content area has a search bar, filter, and 'Hide All' button. A list of sessions is shown, including 'Research Session 2', 'Poster Session 3', and several 'Workshop Session 4' entries. The 'Plenary Speaker: Robert Gaunt' session is highlighted. Its details show the title 'Bidirectional brain-computer interfaces', the date 'Wednesday June 9th, 11:00 - 12:00 PM PDT', and the BlackRock Microsystems logo. A large video player area contains the text 'We'll Go Live Soon!' and a message to use the chat widget. Below the video are social media links and an 'Add to Calendar' button. The 'Speakers' section lists Robert Gaunt from the University of Pittsburgh with 'Learn More' and 'Speaker' links. The 'Description' section begins with 'Over the past 15 years, more than two dozen people have had microelectrode arrays implanted into their brains...'. On the right, a 'Public Session Chat' widget shows 0 messages and 1 participant, with a message prompt: 'No one has started chatting here yet. Leave a message to be the first!'. The chat input field at the bottom says 'Chat here ...'.

BCI SOCIETY

BRAIN PRODUCT
Solutions for neurophysiological research

Event Admin

Cendrine De Vits

Lobby

Sessions

Poster Hall

Poster Hall

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Abstract Book

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POWERED BY PHEEDLOOP

Search Filter Hide All

Research Session 2
Anouck Schippers, Fumiaki Iwane, Jeffrey Weiss, Jelena Mladenovic, Sebastian Castaño-Candamil, Valeria Mondini
JUN 09 6:00 - 7:30 AM **Research Session**

Poster Session 3
JUN 09 7:30 - 8:30 AM **Poster Session**

Workshop Session 4 - W13
JUN 09 9:00 - 11:00 AM **Workshop**

Workshop Session 4 - W14
Anton Nijholt
JUN 09 9:00 - 11:00 AM **Workshop**

Workshop Session 4 - W15
Aysegül Gunduz, Erik Aarmoutse
JUN 09 9:00 - 11:00 AM **Workshop**

Workshop Session 4 - W16
Andrea Kübler, Brendan Allison, Donatella Mattia, Pim Haselager
JUN 09 9:00 - 11:00 AM **Workshop**

Plenary Speaker: Robert Gaunt
Robert Gaunt
JUN 09 11:00 - 12:00 PM
BLACKROCK MICROSYSTEMS

Plenary Speaker: Robert Gaunt
Bidirectional brain-computer interfaces
Wednesday June 9th, 11:00 - 12:00 PM PDT
BLACKROCK MICROSYSTEMS

We'll Go Live Soon!
Until we begin, use the chat widget on the right to share your excitement and start networking

Speakers
Robert Gaunt University of Pittsburgh
[Learn More](#) [Speaker](#)

Description
Over the past 15 years, more than two dozen people have had microelectrode arrays implanted into their brains to allow them to control computers, robotic arms and functional electrical stimulation

Public Session Chat
No one has started chatting here yet. Leave a message to be the first!

Chat here ...

Inside a Session:

Once you have determined which session you want to attend, simply click the title to enter the space and learn more. If the session has not yet started, you will see holding slides.

There is a chat box on the right-hand side. There are two chat interfaces, one public, one private.

On the left is a public chat interface that can be seen by anyone entering this session.

On the right is a private chat interface. Click the icon with the people to see who is in the session. Click on the name of the person you wish to private chat with. A new pop-in window will open.

During a live session, the video will be a live Zoom feed. To ask a question, simply enter it into the Zoom Q&A box.

The screenshot shows a session page for BlackRock Microsystems. The session title is "Plenary Speaker: Robert Gaunt" with the topic "Bidirectional brain-computer interfaces" on "Wednesday June 9th, 11:00 - 12:00 PM PDT". A large video placeholder says "We'll Go Live Soon!". Below the video are social media links and an "Add to Calendar" button. The "Speakers" section lists Robert Gaunt from the University of Pittsburgh. The "Description" section mentions microelectrode arrays. On the right, a chat widget is visible with a "Public Session Chat" and a private chat window for Robert Gaunt. Annotations with red arrows point to the "Public chat" icon, the "Private chat" icon, and the "Add to Calendar" button.

Public chat →

Private chat. See who is in the session, and send a private text. ←

← Add the session to your personal calendar

BLACKROCK MICROSYSTEMS

Hide All

Plenary Speaker: Robert Gaunt
Bidirectional brain-computer interfaces
Wednesday June 9th, 11:00 - 12:00 PM PDT

BLACKROCK MICROSYSTEMS

We'll Go Live Soon!
Until we begin, use the chat widget on the right to share your excitement and start networking

[Twitter](#) [LinkedIn](#) [Facebook](#) [Email](#) [Add to Calendar](#)

Speakers

Robert Gaunt University of Pittsburgh
[Learn More](#) [Speaker](#)

Description

Over the past 15 years, more than two dozen people have had microelectrode arrays implanted into their brains to allow them to control computers, robotic arms and functional electrical stimulation

Public Session Chat

No one has started chatting here yet. Leave a message to be the first!

Send a private message

Start Chat

Chat here ...

Poster Hall and Poster Booth:

Posters will be accessible for the duration of vBCI on the Pheedloop platform while live poster sessions will take place at designated times on the Gather Town platform.

Posters are grouped in a Poster Hall and each poster is assigned a virtual poster booth. Upon entering the hall, you will see a list of poster numbers and titles. Click on the poster you want to view. You can filter the posters by themes. You can also search based on poster number (review all the posters in the poster abstract book), or title.

The poster numbers are listed by session (Number), then by BCI Area (Letter), and finally with a unique number. For example, poster 1-A-1 is in poster session 1 and falls under the BCI Area of BCI Implant - Control.

A BCI Implant - Control

B BCI Implant - Other

C BCI implant- other

D BCI non-invasive – control

E BCI non-invasive - other

F BCI non-invasive- control

G Signal acquisition

H Signal analysis

I User aspects: experience, ethics

Click title to
enter poster
booth



1-G-77: Manipulating a whip - learning to control dynamically complex objects
Presenting Author: Moses C. Nah
Cambridge, Massachusetts

Manipulating a Whip: Learning to Control Dynamically Complex Objects
Moses C. Nah¹, Aleksei Krotov², Marta Russo³, Mahdiar Edraki⁴, Reza Sharif Razavian⁵, Dagmar Sternad⁶ and Neville Hogan¹
⁽¹⁾ MIT (Massachusetts Institute of Technology), MA, USA ⁽²⁾ Northwestern University, IL, USA ⁽³⁾ Politecnico di Torino, Italy ⁽⁴⁾ Politecnico di Torino, Italy ⁽⁵⁾ Politecnico di Torino, Italy ⁽⁶⁾ Politecnico di Torino, Italy

Paradox of Human Performance

- Human's dexterity far exceeds that of modern robots, despite a much slower neuromuscular system.
- Slow neuromuscular system implies that prediction based on some form of internal model plays a prominent role in human motor control.
- Hypothesis:** Human motor control uses an internal representation that is solely encoded in terms of **Dynamic Motor Primitives**.

Dynamic Motor Primitives (DMP)

Submovements	Oscillations	Mechanical Impedances
Where to move to next	Why move like this	How to move like this

Why Whip Matter?

- It is an extremely complex object - vastly high DOF system (in principle an infinite number) with challenging dynamic behavior (including shock waves).
- Nevertheless, apparently indifferent to this daunting complexity, humans can still learn to manipulate a whip.
- How is this possible?
- We believe the key strategy of human motor control is using structures called **Dynamic Motor Primitives**.

1-G-77: Manipulating a whip - learning to control dynamically complex objects
Presenting Author: Moses C. Nah

Email Instagram

Poster pdf file

Authors: Moses C. Nah¹, Reza Sharif Razavian², Aleksei Krotov³, Mahdiar Edraki⁴, Marta Russo⁵, Neville Hogan¹, Dagmar Sternad⁶
¹MIT (Massachusetts Institute of Technology), ²Northwestern University, ³Politecnico di Torino, ⁴Politecnico di Torino, ⁵Politecnico di Torino, ⁶Politecnico di Torino

One of the paradoxes of human motor neuroscience is that human sensory-motor abilities vastly out-perform modern robot technology, despite the slow neuromuscular system. A possible resolution of this paradox is that humans rely heavily on prediction based on some form of internal model. Neural and behavioral evidence supports the existence of such models, yet the exact nature of the model itself still remains to be clarified. We hypothesize that the internal model used for motor control is based on (at least) three distinct classes of

Public Exhibitor Chat

No one has started chatting here yet. Leave a message to be the first!

Chat here ...

Scroll down for
video and more
info

Networking:

You can search for other attendees at the conference through the Networking tab. Use the search bar to look up specific individuals or filter via certain types of attendees (award winners, board members, staff). Once you have found the person you would like to chat with, simply click Start Chat to send them a private message. You can then choose to continue text chatting with the individual or you can join a 1:1 video call within the system.

The screenshot displays the BCI Society Networking interface. On the left is a teal sidebar with navigation options: Event Admin, Cendrine De Vis (profile), Lobby, Sessions, Poster Hall, Networking (selected), Account, Help, Logout, Abstract Book, Gather Town, and Contact us. The main content area has a top navigation bar with 'People' (selected), 'Groups', and 'Matches'. Below this is a search bar and a 'Filters' dropdown. A red arrow points to the search bar with the text 'Search by name or filter'. A list of attendees is shown, including Ahmed Jorge, Akshay Sujatha Ravindran, Alexander McClanahan, Alexandre Moly, Alireza Rouzitalab, and Amy Young (NIRx Medical Technologies, Exhibitor/Sponsor). On the right, the profile of Cendrine De Vis, Conference Manager at BCI Society, is displayed with a circular profile picture and a large blue 'Start Chat' button. The top right corner shows a status bar with a globe icon, a green dot, the number '1', a language icon, a user icon, and a notification bell with a red '0'.



Cendrine De Vis
Conference Manager, BCI Society

Ahmed Jorge

Private Chats

Return to Chats Join Video Call

hi

Write a message ...



Collapse chat window

Start Chat



Text chat and video window