

71st SPSJ Annual Meeting

Webex Meeting Guide

The Society of Polymer Science, Japan

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1. Introducing WebexMeeting

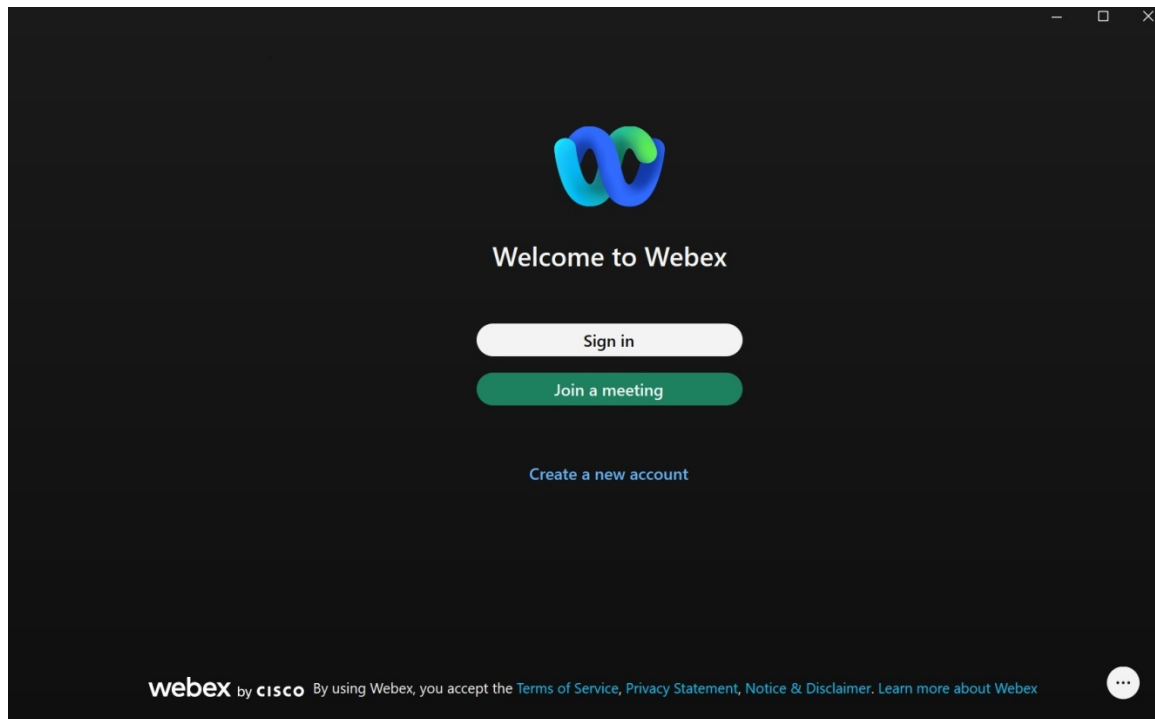
1)Installing Webex Applications

Please download and install the appropriate application for the device to be used from the following site.

<https://www.webex.com/ja/downloads.html>

2)Create a Webex Account

Launch the downloaded application. Click 'Create a new account' to get a Webex account.



3)Check Webex Meeting operation

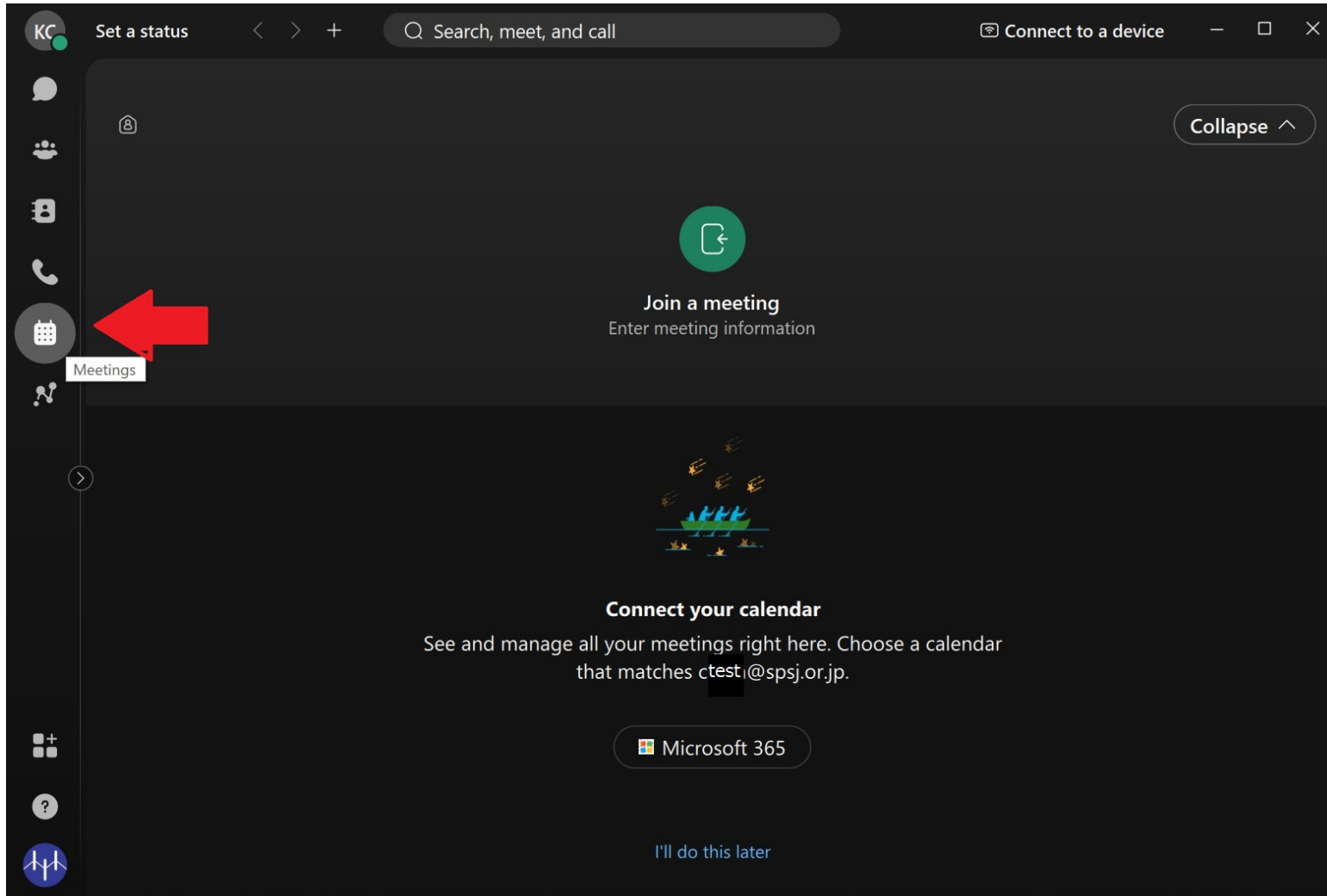
The Webex test site can be used to check for problems with audio and camera transmission and reception.

The Webex test <https://www.webex.com/test-meeting.html>

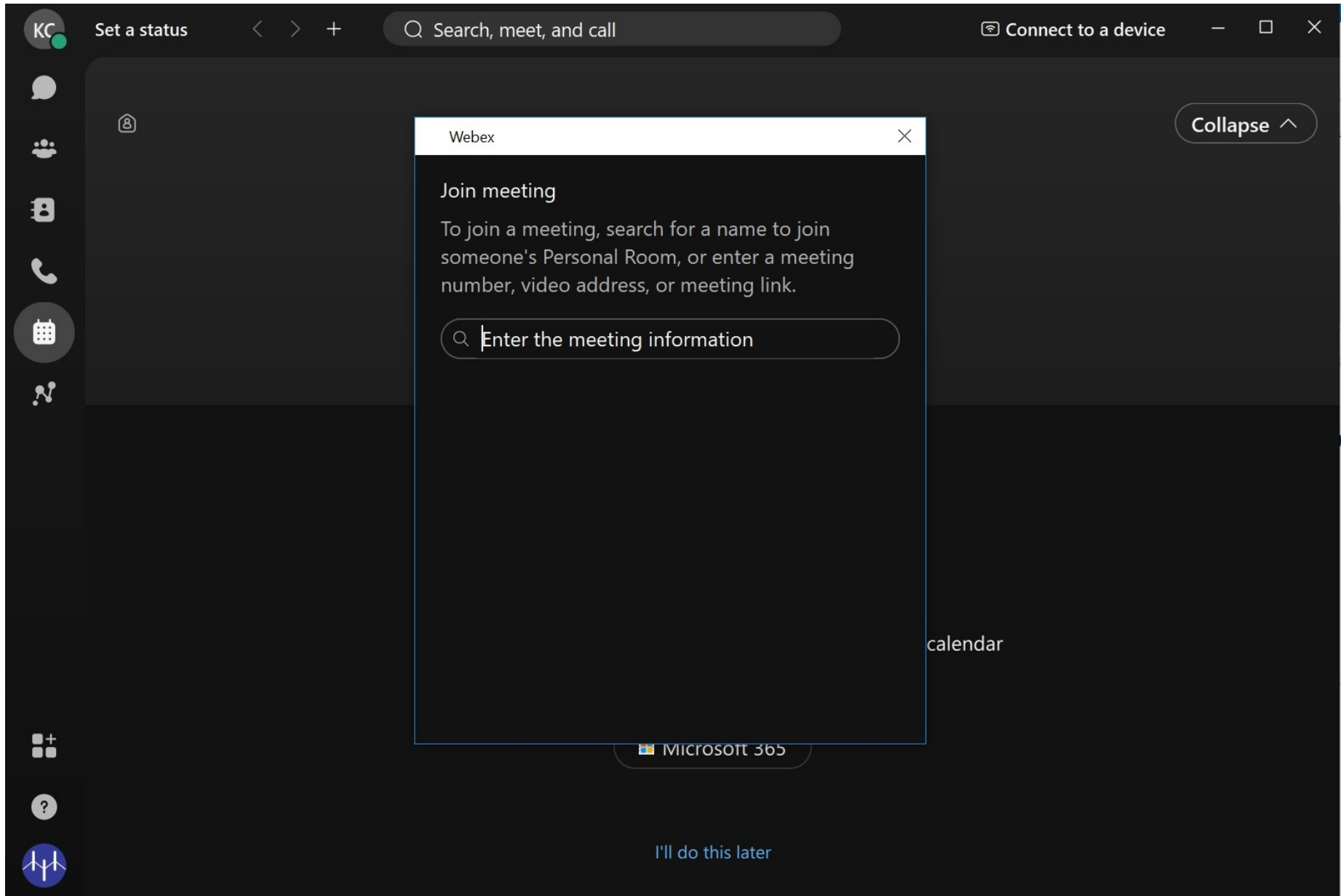
3. How to enter a Webex Meeting

Sign in with your Webex account from the application.

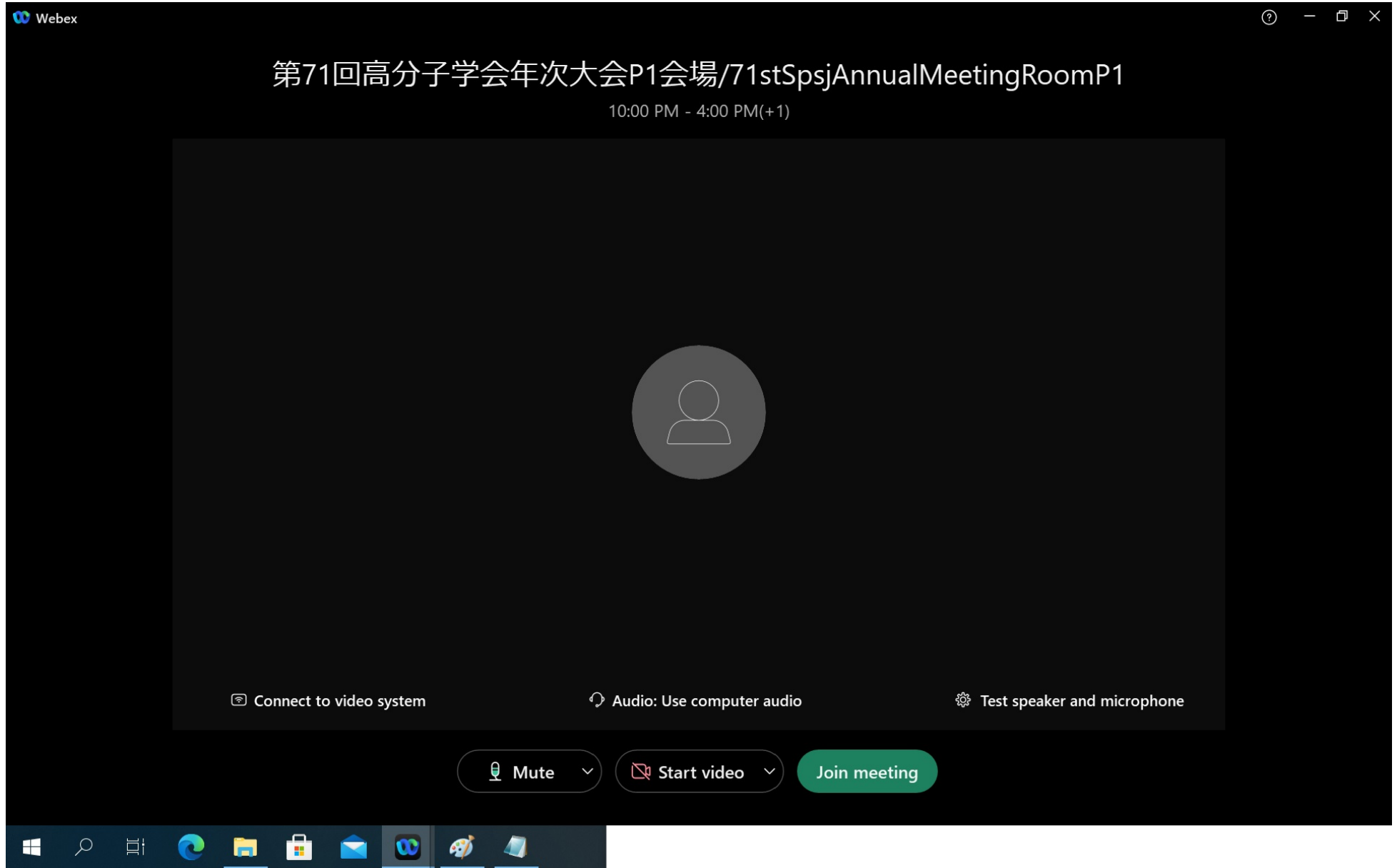
Clicking on the arrow icon will take you to the screen below.



Press the "Join Meeting" button in the center of the screen.



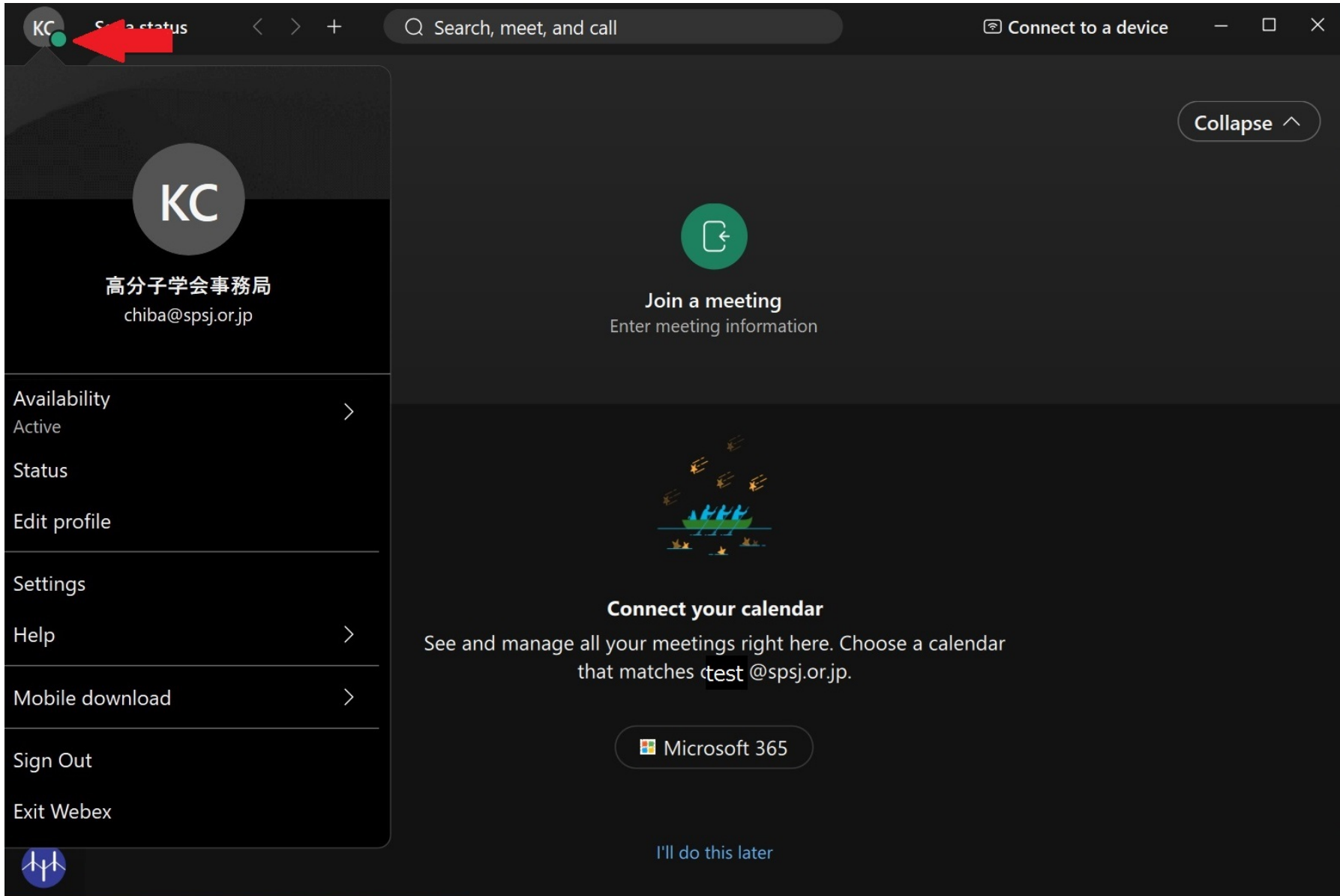
Enter the meeting URL or meeting number in the entry field. If it is a meeting number, enter the password next.



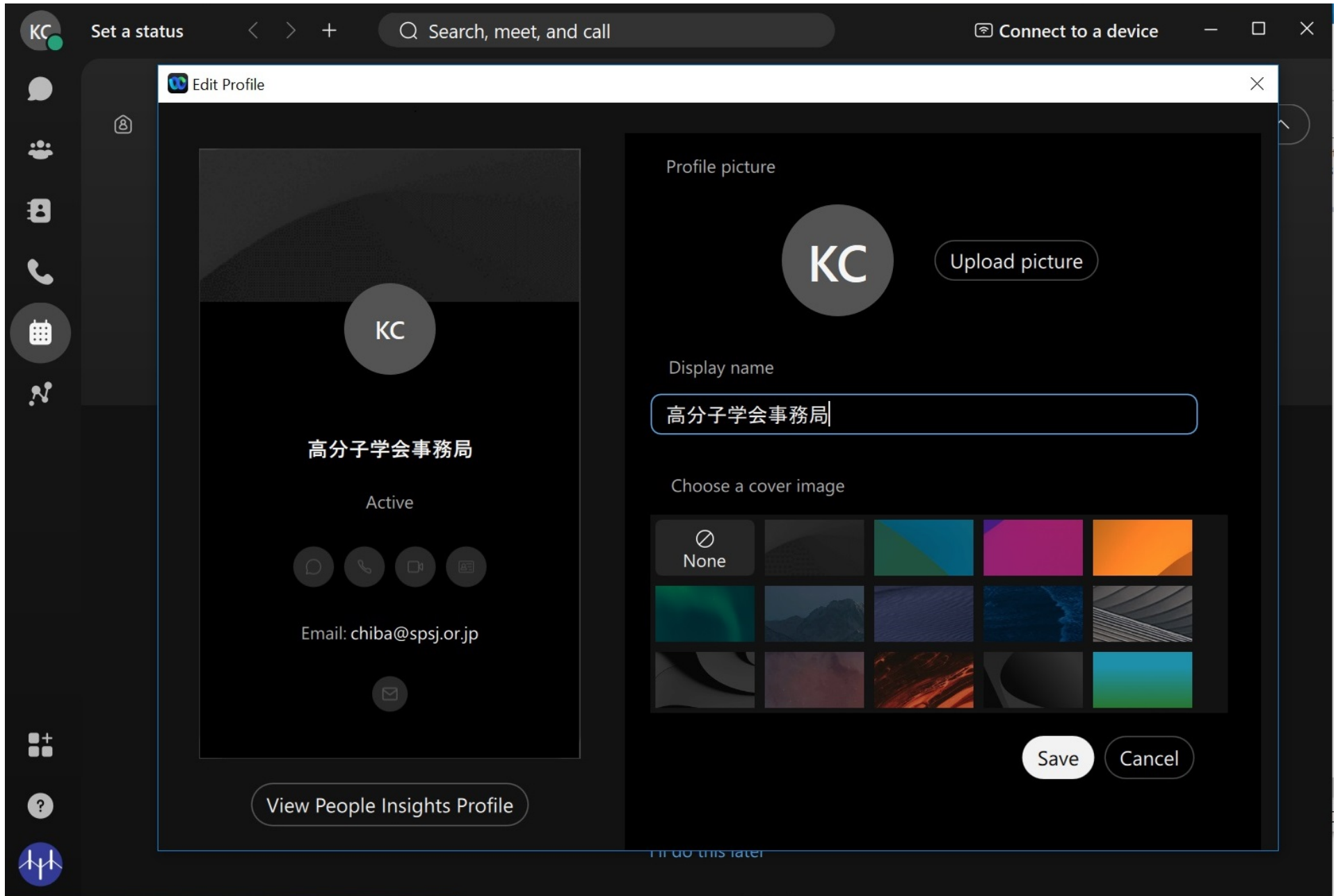
Press the "Join Meeting" button.

4. How to set participant names

Click on the icon in the upper left corner and select "Edit Profile" from the menu that appears



Enter the participant's name in the Display Name field.



■ Participant Name at the SPSJ meeting.

All participants should set Participant Names in each room by following format.

Venue staff confirms the admission of speakers, presenters, and chairs based on **Participant Names**.

Participant will also know the venue staff, chair, and presenter by **Participant Name**.

You can know which presentation is being proceeded by the presentation number in **Participant Name**.

- Format of Participant Names

Audience : **Name Affiliation** ex. John Smith SPSJ Univ

Presenter : **Presentation Number Name Affiliation** ex. 1A03IL John Smith SPSJ Univ

Chair : 00 Name Affiliation ex. 00 John Smith SPSJ Univ

Venue Manager : 0 Name Affiliation ex. 0 John Smith SPSJ Univ

Venue Staff : 0 Name Affiliation

5. Description of basic functions

1) Screen Function Description



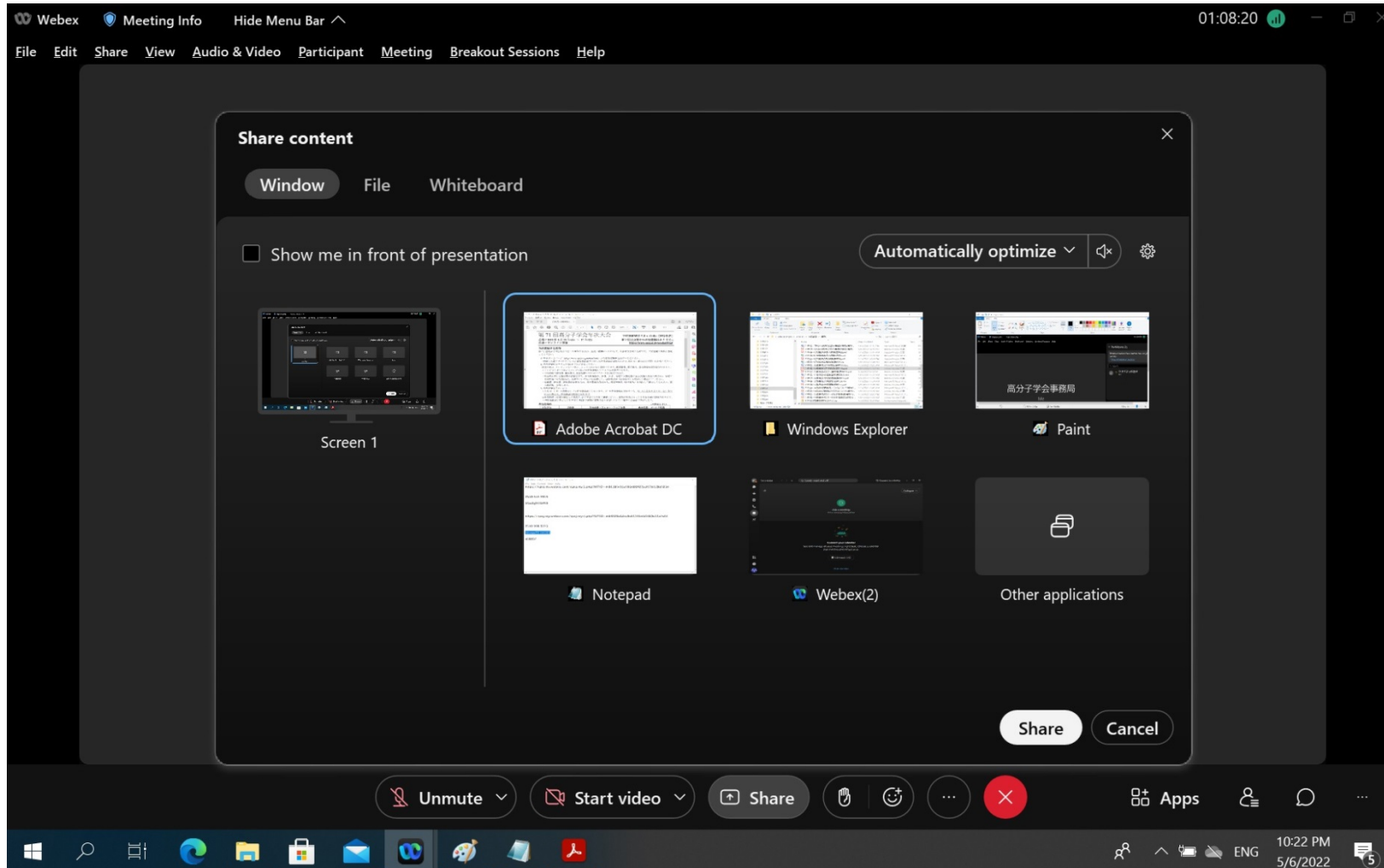
2) Content Sharing

Press the Share button to display the content sharing screen.

The left side is sharing your entire PC screen, and the right side is sharing only selected applications.

Displayed on the right side are the applications that are running on your PC.

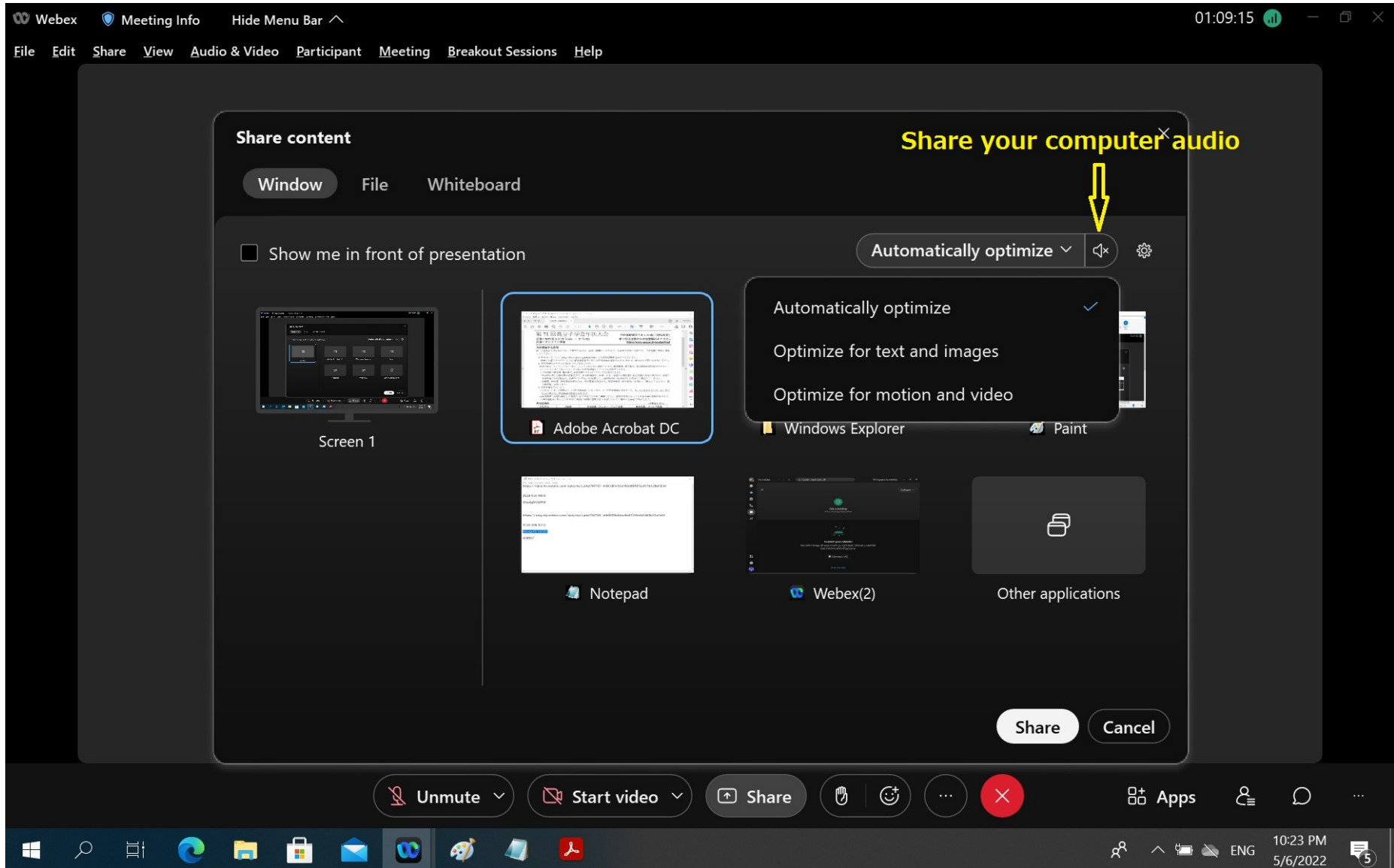
After sharing, a pull-down menu will appear at the top of the screen. The release button is the leftmost one.



When sharing, you can select the type of sharing in the optimization menu in the upper right corner.

If you have video in your presentation, please select "Optimize for motion and video".

If you have audio in your presentation materials, please press the "Share your computer audio" button.



3) Displaying a list of participants

The list of participants is displayed on the right side of the screen.

4) chat

Chat messages can be sent during a meeting. It is also possible to send the message to a specific participant instead of all participants. In case of audio or video failure, etc., we will communicate with the organizer via chat.

a) Select the recipient of the message from the drop-down list.

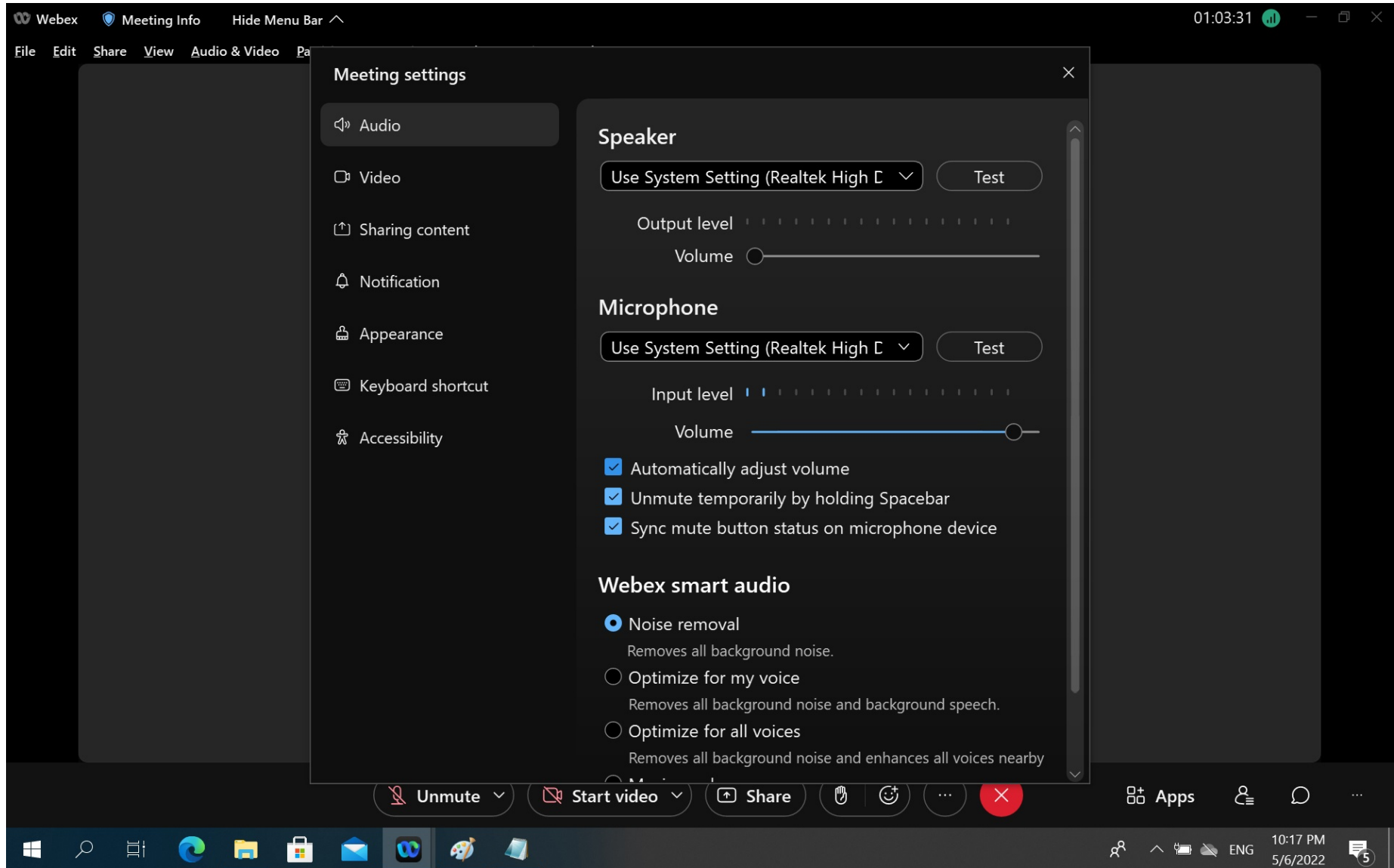
b) Type your message in the chat text box and press Enter to send.



5) Speaker, microphone, and video settings

From the "Audio and Video" menu, select "Speaker and Microphone Settings" or "Video Settings".

Press the Test button to test the selected device.



6. Breakout session function

A breakout session is a child venue that hangs over the parent venue (main meeting). There will be breakout sessions in the poster room for each presentation number.

1) Entering a breakout session

From the Breakout Sessions menu, select "Join Breakout Session" and choose the name of the session you wish to enter.



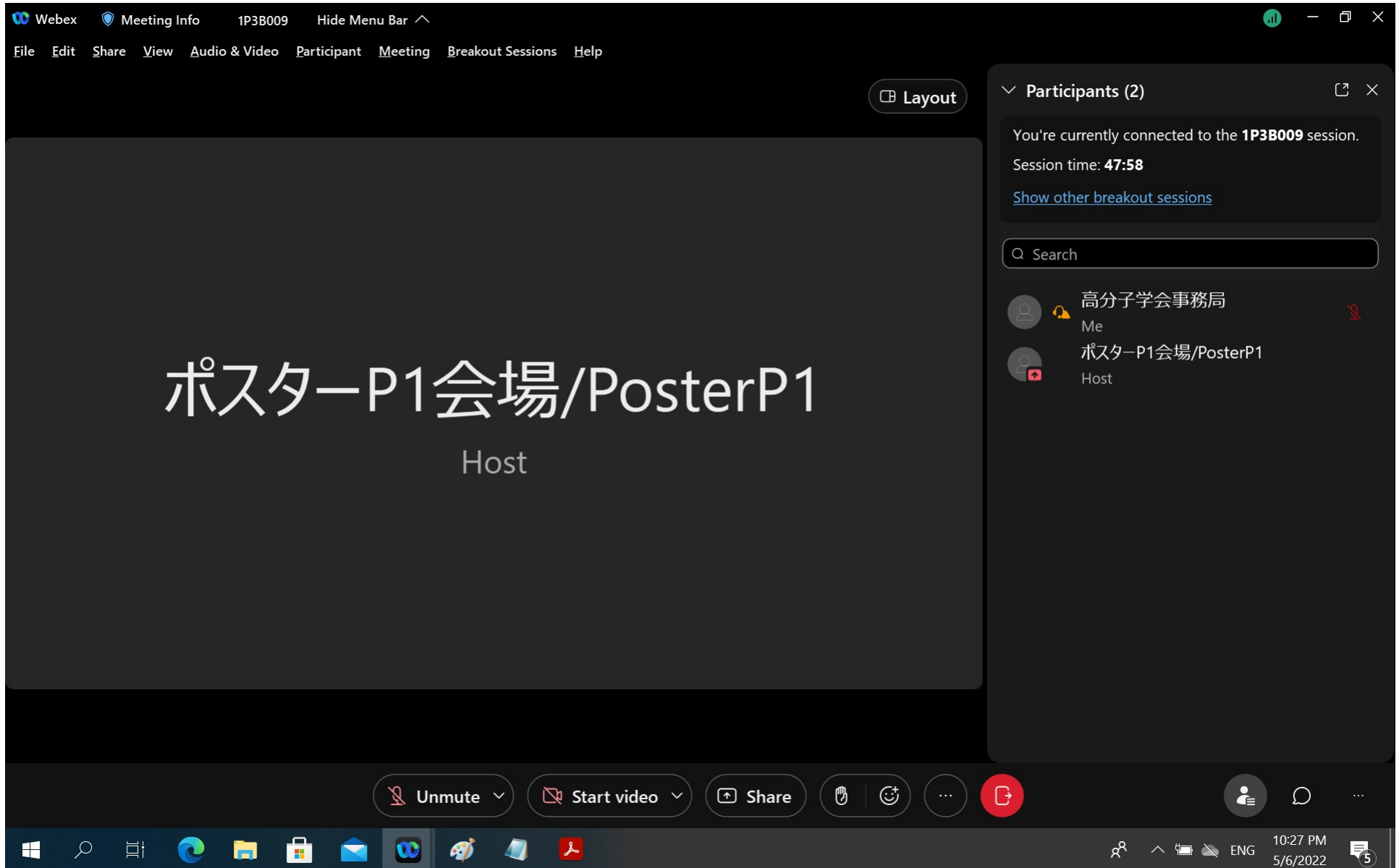
2) Screen after entering a breakout session

The main meeting screen and functions remain the same.
Which session you are entering is displayed at the top.



3) Display of list of participants in a breakout session

When viewing the participant list, the participants in that session are displayed along with which session they are in.



4) Scaling of shared materials in breakout sessions

The "+" and "-" at the top of a shared document allow you to zoom in and out on the displayed document.

If you zoom in, a scroll bar will appear allowing you to navigate to where you want to view with the mouse.

Webex Meeting Info 1P3B009 Hide Menu Bar

File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help

Viewing ポスターP1会場/PosterP1's appl... - 84% +

Zoom In



Graduate School of Engineering, Kobe University

イオン液体ポリマー中空粒子の作製及びカプセル特性評価

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Soft Matter Interface Laboratory (SMIL)

【緒言】 中空構造を有する高分子微粒子は、軽量材料や有用物質を封じ込めたマイクロカプセルなどとして実用化されている。当研究室では、大久保らにより提唱された相分離自己組織化(SaPSeP)法(Scheme 1) [1]を応用し、様々なカプセル化粒子の合成を行っている [2]。



ところで、室温においても溶解した塩であるイオン液体(IL)はイオン伝導性や二酸化炭素吸収能など、様々な機能性を有しており、近年では加工性などの観点からイオンゲルやイオン液体ポリマー(PIL)などILの性質を保持した固体材料の研究が盛んに行われている。当研究室ではILモノマーを分散重合により粒子径・粒子径分布の制御されたPIL微粒子の合成に成功し、さらにアニオン交換により溶解性が変化するなどIL同様の特性が保持されていることを明らかにしている[3, 4]。

Hydrophobic



Hydrophilic



本研究ではSaPSeP法を用いたILをシェルに有する中空粒子の合成を試みた。さらに機能変換可能な新規マイクロカプセル材料の作製を目指し、アニオン交換により得られた中空粒子のシェル層の性質を疎水性から親水性へと変化させることを試み、油性及び水溶性物質を粒子内部に保持させる検討を行った。



References
[1] 井川, H. Mitsui, H. Kikuchi, M. Okada, Langmuir, 21, 9453 (2005) [2] T. Okada, A. Otsu, H. Mitsui, Chem. Commun., 58, 9921 (2014) [3] M. Tobata, H. Mitsui, Y. Mizuno, T. Yamaguchi, Macromol. Rapid Commun., 33, 1150 (2012) [4] M. Tobata, H. Mitsui, J. Colloid Interface Sci., 398, 120 (2013)

● Poly([M]MA)/[T]FSA)-EGDM hollow particles by SaPSeP method



Shell thickness (Particle size: 15 μm)
Measured: 1.60 μm
Theoretical: 1.66 μm

Conversion: 96 %

Fig. 1 SEM photographs (a-d) of obtained particles prepared by suspension polymerization of [M]MA/[T]FSA/EGDM/PSMA/n-butyl acetate droplets and TEM photograph (e) of ultrathin cross-sections of the obtained particles at various PSMA content. PSMA content (wt% based on n-butyl acetate): (a) 10, (b) 5.0, (c) 10, (d) 10.

Fig. 2 SEM photographs (a-d) of obtained particles prepared by suspension polymerization of [M]MA/[T]FSA/EGDM/PSMA/n-butyl acetate droplets at various [M]MA/[T]FSA content ([wt% based on monomer]): (a) 60, (b) 70, (c) 80, (d) 99.

● Morphology and property of PIL hollow particles after anion exchange



(a) Before $\theta = 98^\circ$ (b) After $\theta = 52^\circ$

Fig. 3 Optical micrographs and FT-IR spectra of P([M]MA/[T]FSA)-EGDM/PMA hollow composite particles ([M]MA/[T]FSA/EGDM, w/w, 0.70:3) before (a) and after (b) treatment of LiBr/ethanol. Visual images of the water contact angle on (c) P([M]MA/[T]FSA)-EGDM film and (d) P([M]MA)-EGDM film.

● Change of shell property by anion exchange in water-soluble fluorescent material (Rh. B) aqueous solution



Fig. 4 CLSM images of P([M]MA/[T]FSA)-EGDM/PMA and P([M]MA)-EGDM/PMA hollow composite particles in Rh. B aq. ([M]MA/[T]FSA/EGDM, w/w, 0.70:3)

● Encapsulation test in oil-soluble fluorescent material (Nile red) various solutions



Fig. 5 CLSM images of P([M]MA/[T]FSA)-EGDM/PMA hollow composite particles ([M]MA/[T]FSA/EGDM, w/w, 0.70:3) and dispersed in various solvents dissolving Nile red. Solvents: (a, a') ethanol, (b, b') acetonitrile, (c, c') DMSO, (d, d') toluene.

ポスターP1会場/PosterP1
Host

Unmute Start video Share

8/5/2022 10:32 PM

18

This is an example of a display enlarged to 164%.

Webex Meeting Info 1P3B009 Hide Menu Bar

File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help

Viewing ポスターP1会場/PosterP1's appl... - 164% +

Layout

ポスターP1会場/PosterP1 Host

子微粒子は、軽量材料や有機材料などとして実用化されており提起された相分離自己組織化を用い、様々なカプセル化粒子を合成する。

PEGDM shell
Toluene

た塩であるイオン液体(IL)は、様々な機能を有し、そこからイオンゲルやイオン液体を含有した固体材料の研究が盛んに行われている。ILモノマーを分散重合によりPIL微粒子の合成に成功し、その特性が変化するなどIL同様の特性を示している[3, 4]。

Hydrophilic

をシェルに有する中空粒子に変換可能な新規マイクロカプセル。イオン交換により得られた中空粒子は、水性から親水性へと変化する。

(a) 1.0 (b) 5.0 (c) 10 (d) 10 (e) 10

Shell thickness (Particle size: 15 μm)
Measured: 1.60 μm
Theoretical: 1.66 μm

Conversion: 96 %

Fig. 1 SEM photographs (a-d) of obtained particles prepared by suspension polymerization of [MTMA][TFSA]/EGDM/PBMA/n-butyl acetate droplets and TEM photograph (e) of ultrathin cross-sections of the obtained particles at various PBMA content. PBMA content (wt% based on n-butyl acetate): (a)1.0; (b) 5.0; (c-e) 10.

(a) 60 (b) 70 (c) 80 (d) 99

Fig. 2 SEM photographs (a-d) of obtained particles prepared by suspension polymerization of [MTMA][TFSA]/EGDM/PBMA/n-butyl acetate droplets at various [MTMA][TFSA] content. [MTMA][TFSA] content (wt% based on monomer): (a) 60; (b) 70; (c) 80; (d) 99.

Morphology and property of PIL hollow particles after anion exchange

(a) Before (b) After

(a) Before (b) After

in water-soluble flow

LiBr
Anion exchange

Rhodamine B (Rh. B) (water-soluble)

Wavelength
Absorption: 555 nm
Fluorescence: 580 nm

Fig. 4 CLSM images of P([MTMA][TFSA]-EGDM)/PB particles in Rh. B aq. ([MTMA][TFSA]/EGDM, w/w, 0.7/0.3). The images show the encapsulation of Rh. B into the particles after anion exchange.

Encapsulation test in oil-soluble fluorescent dye

Ethanol Acetonitrile

(a) P([MTMA][TFSA]) (b) P([MTMA][TFSA])
(a') P([MTMA]Br) (b') P([MTMA]Br)

Unmute Start video Share

10:33 PM 5/6/2022

5) Exit from breakout session

By pressing the Exit button, you can choose to return to the main meeting or leave the Webex meeting itself.

The screenshot displays the Webex interface during a breakout session. The main content area shows a large white Japanese text overlay: "ポスターP1会". A central dialog box titled "Leave 1P3B009 session" is open, asking: "Do you want to leave the 1P3B009 session and return to the main session?". The dialog box has three buttons: "Leave meeting" (in red), "Leave session" (in red), and "Cancel" (in white). The top menu bar includes "File", "Edit", "Share", "View", "Audio & Video", "Participant", "Meeting", "Breakout Sessions", and "Help". The "Breakout Sessions" menu is currently selected. On the right, the "Participants (2)" panel shows the session name "1P3B009", session time "48:38", and a list of participants: "高分子学会事務局" (Me), "ポスターP1会場/PosterP1" (Host), and "Host". The bottom toolbar contains "Unmute", "Start video", "Share", and other controls. The system tray at the bottom right shows the time "10:28 PM" and date "5/6/2022".