



AERPAW Fall 2021 Event

Venue: Mountains Ballroom, Talley Student Center, Main Campus, North Carolina State University (2610 Cates Ave, Raleigh, NC 27606), November 9-10, 2021



NSF AERPAW Fall 2021 Event will be held on November 9-10 at the Main Campus of North Carolina State University, Raleigh, NC. The [event schedule](#) includes a tour of the AERPAW experimentation areas, drone flight and software defined radio experiment demo (weather conditions permitting), three panel sessions that will discuss how AERPAW can be used for advanced wireless and drone experimentation, hands on training sessions, poster sessions, and a 6GNC meeting.


Registration: The [registration](#) for the event is free but required for on-site or online attendance. The number of attendees in each of the hands-on training sessions will be capped, and hence the attendees are required to express whether they are interested to join one of the hands-on training sessions while filling out the registration form. If the attendees are selected to join one of the training sessions, they will be notified by the organizers prior to November 5, 2021, along with the specific training session that they are scheduled to attend. Further details about the hands on training will be provided in the future through this website.

Mode of Attendance: While the AERPAW Fall 2021 Event will be held on-site at NC State University, portions of the program will be accessible in real-time to the registered attendees. All the registered off-site attendees will be notified with the live stream link of the event prior to the event date.

Logistics — Venue, Parking, and Hotel Reservations: Information on the event venue, maps, and parking can be accessed [here](#). A group rate of \$160 per night is provided to attendees of the BWAC and AERPAW events at the [StateView Hotel, Autograph Collection](#) (located at 2451 Alumni Dr, Raleigh, NC 27606). The rate applies from Sunday, November 7, to Wednesday, November 10, 2021. For interested attendees, the **deadline to book at this group rate is** Wednesday, October 13, 2021. Please click at the following link to make your reservation: [Book your group rate for BWAC and AERPAW Events](#)

6GNC Meeting: The program on November 10th includes a [6GNC](#) meeting that will be held in parallel to the first training session. The 6GNC meeting is organized by Robert W. Heath and Nuria Gonzalez-Prelcic, and it will involve participation by industry and academics with presentations centered around 6G research and development. Further details of the 6GNC Meeting will be announced from this website.

Poster Sessions: On the afternoon of November 10th, there will be two poster sessions that will include solicited poster presentations by interested attendees from industry, academia, and government. The posters are expected to be of relevance to AERPAW, and should include research results in the areas of advanced wireless and drones. Posters that discuss future potential experiments on AERPAW are highly encouraged. Participants who are interested to present a poster can submit a title and an abstract [here](#). Poster submission window will close on **October 29, 2021 (Extended)**, and the authors of the selected posters will be notified by the organizers on **November 1, 2021**. Copies of the posters will also be available at the event website unless otherwise requested by the poster authors. The recommended poster dimensions are 30" x 40" (or 40" x 30") or smaller. Please bring your physical posters – we will provide the easels.

BWAC Fall 2021 Meeting: The AERPAW event will be preceded by a 1.5 day [NSF BWAC Fall 2021 semi-annual meeting](#). NSF BWAC meeting will be attended by BWAC industry advisory board members, faculty, and students. On the other hand, interested industry participants can join the BWAC program by filling out a non-disclosure agreement. The tentative agenda for the BWAC meeting can be accessed [here](#) . If you are an industry participant joining AERPAW Fall 2021 Event, and interested in also attending the BWAC meeting on November 8-9, contact BWAC directors [Marwan Krunz](#) and [Ismail Guvenc](#).

Organizers

- **Event Chairs:** [Ismail Guvenc](#), [Mihail Sichitiu](#), [Rudra Dutta](#)
- **Poster Chairs:** [Brian Floyd](#), [Thomas Zajkowski](#)
- **6GNC Meeting Chairs:** [Robert W. Heath](#), [Nuria Gonzalez-Prelcic](#)
- **Panel Moderators:** [Robert W. Heath](#), [Chris Reberg-Horton](#), [Kaushik Chowdhury](#)
- **Website and Logistics:** [Jessica Brown](#)

Important Dates

- **Event Website, Registration Form, and Abstract Submission Form Posted Online:** October 2, 2021
- **Poster Abstract Submission Deadline:** October 29, 2021 (Extended)
- **Event Registration Deadline:** October 29, 2021
- **Poster Abstract Acceptance Notifications:** November 1, 2021
- **Hands on Training Session Attendees Acceptance Notifications:** November 5, 2021
- **Event Date:** November 9-10, 2021

Event Schedule

Tuesday, November 9, 2021

- 1:00 – Registration Desk Open at Talley Student Union
3:15 pm
- 1:15 – [Tour of Lake Wheeler and Centennial Campus AERPAW Infrastructure, Drone and](#)
3:15 pm [Wireless Demo \(Weather Conditions Permitting\)](#)
- 3:15 – **Event Opening and Welcoming Remarks** — Marc Hoit (Vice Chancellor for IT, NC State),
3:30 pm Murat Torlak (Program Director, NSF), Mari Silbey (Program Director, PAWR Project Office)
- 3:30 – [Moderated Panel-1: AERPAW and 5G/6G Research](#) (Moderator: Robert W. Heath, NC State
4:30 pm University)
- 4:30 – **Coffee Break**
4:45 pm
- 4:45 – [Moderated Panel-2: AERPAW and Smart Agriculture Research](#) (Moderator: Chris Reberg-
5:45 pm Horton, NC State University)
- 6:00 – **Dinner** — Daniel Stancil (Chair, Department of Electrical and Computer Engineering, NC State)
7:00 pm
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Panel 1: AERPAW and 5G/6G Research

Moderator: [Robert W. Heath](#) (NC State University)

Panelists:

- [Nuria Gonzalez-Prelcic](#) (NC State University)
- [Manu Gosain](#) (Northeastern University)
- [Leila Zurba Ribeiro](#) (Mitre Engenuity)
- [Saeed R. Khosravirad](#) (Nokia Bell Labs)

Panel 2: AERPAW and Smart Agriculture Research

Moderator: [Chris Reberg-Horton](#) (NC State University)

Panelists:

- [James Krogmeier](#) (Purdue University)
- [Cranos Williams](#) (NC State University)
- [Anand Singh](#) (IBM)
- [Bill Danker](#) (SAS)

Wednesday, November 10, 2021

Track 1 (Room: Mountains)

- 7:30 – 8:30 am** **Breakfast** — Gregg Rothermel (Chair, Department of Computer Science, NC State)
- 8:30 – 10:00 am** **AERPAW Platform Overview and Experiment Walkthrough**
Chairs: I. Guvenc, M. Sichitiu, R. Dutta
- 10:00 – 10:15 am** **Coffee Break**
- 10:15 am – 12:15 pm** **Hands on Training Session 1** Emulation of AERPAW Experiments (~20 people limit for hands-on training)
Chairs: Mihail Sichitiu and Rudra Dutta
- 12:15 – 1:15 pm** **Lunch**
- 1:15 – 2:15 pm** **[Moderated Panel-3: AERPAW and Drone/AAM Research](#)**
(Moderator: K. Chowdhury)
- 2:15 – 3:45 pm** **Hands on Training Session 2** Emulation of AERPAW Experiments (~20 people limit for hands-on training)
Chairs: Mihail Sichitiu and Rudra Dutta
- 3:45 – 4:00 pm** **Coffee Break**
- 4:00 – 5:30 pm** **Hands on Training Session 3** Emulation of AERPAW Experiments (~20 people limit for hands-on training)
Chairs: Mihail Sichitiu and Rudra Dutta
- 6:00 – 7:00 pm** **Dinner** — Mladen Vouk (Vice Chancellor for Research, NC State)

Track 2 (Room: Piedmont)

[6GNC Event](#)

Chairs: R. W. Heath and N. Gonzalez Prelicic

[Solicited Poster Session 1](#)

Chair: Thomas Zajkowski

[Solicited Poster Session 2](#)

Chair: Brian Floyd

Panel 3: AERPAW and Drone/AAM Research

Moderator: [Kaushik Chowdhury](#) (Northeastern University)

Panelists:

- [Kamesh Namuduri](#) (University of North Texas)
- [Mihail Sichitiu](#) (NC State University)
- [Zafer Sahinoglu](#) (Mitsubishi Electric Innovation Center)
- [Michael Rogers](#) (Carolina Unmanned Vehicles)

Register Here

6GNC

Posters

For submitting your poster abstract to be considered in one of the two poster sessions, visit [here](#).

AERPAW: Aerial Experimentation and Research Platform for Advanced Wireless

AERPAW is part of the National Science Foundation's PAWR program, and is funded in part by NSF award CNS-1939334, and by the PAWR Industry Consortium.

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