



Annual Meeting NSF IUCRC Center to Stream Healthcare In Place (C2SHIP) Co-host with Health Connect

Register here: <https://c2ship.org/events/c2ship-annual-meeting-2/>

- 1) **Dec. 14 Dinner (7:00 pm)** Mancuso's Restaurant, Address: 201 E Washington St Suite 201, Phoenix, AZ 85004, at View Room, call (480) 556-0770 for directions if needed.
- 2) **Dec. 15 full-day meeting (Hybrid meeting mode, Agenda will come soon)**
Location: University of Arizona – Phoenix campus Biomedical Sciences Partnership Building 475 N 5th Street, Phoenix
Zoom link for remote: Time: Dec. 15 2022 Thursday 8:00 am -- 3:00 pm (Arizona Time)
Please click this URL to join.
https://arizona.zoom.us/j/83543511784?tk=2pJUNHGqLhJO8gTfvJj31j_hgiNWLyGjiaxjbSplVUk.DQMAAAATc5TS6BZVei1XbEFjeIRfaWNVUW15aktZR0NnAA
- 3) **Dec. 16 C2SHIP project feedback and voting (member companies only)** **Location:** University of Arizona – Phoenix campus Biomedical Sciences Partnership Building 475 N 5th Street, Phoenix (same location as Dec. 15)

1. Lodging recommendations:

- a) AC Marriott Phoenix (tell reservation desk “UA-C2SHIP”, UA rate applies, or follow this link <https://www.marriott.com/events/start.mi?id=1666830044485&key=GRP>)
walking distance to conference, no need for parking pass
414 5th St, Phoenix, AZ 85004
Rate: \$169 + 12.57% tax
General information about the hotel is here
https://www.marriott.com/en-us/hotels/phxad-ac-hotel-phoenix-downtown/overview/?scid=819380c6-4292-4d14-b79a-347775ef2dde&gclid=CjwKCAjw7p6aBhBiEiwA83fGuiZiAoAzFUIQpRS7_uOXbI-4C7Ul_rfiG9GKIAskms8T7GIAt3KBoCTnMQAvD_BwE&gclsrc=aw.ds
- b) SpringHill Suites Phoenix Downtown, 802 East Van Buren Street, Phoenix, Arizona, USA, 85006,
Tel: +1 602-307-9929 They have the rooms for December 14 & 15 with a departure date of December 16, 2022. The rate offer is \$119 plus 12.57%. book it with UA-C2SHIP rate following this link:
<https://www.marriott.com/events/start.mi?id=1666812260101&key=GRP>
Walking distance to conference site. General Information about this hotel can be found:
<https://www.marriott.com/en-us/hotels/phxdt-springhill-suites-phoenix-downtown/overview/?scid=f2ae0541-1279-4f24-b197-a979c79310b0>
- c) Hilton Phoenix Airport (need a free parking pass at the conference, driving 16 minutes to the conference location, and 5 minutes to Phoenix Airport)
2435 S 47th St, Phoenix, AZ
https://hiltonphoenixairport.reservationstays.com/requests/DYmyF9u5RRwH-4oFenVwmQ/hotels/vlgVwEWd?expand_params=true

2. Free Industrial Booth for product display or demo (please contact Janet to confirm the booth location meilingw@arizona.edu)

3. Parking Passes: free pass at the conference registration desk for both Dec. 15 and 16



Schedule for December 15 (Tentative Schedule)

7:30 am – 8:00 am Participant Registration (onsite registration or online) HSBP lobby

8:00 – 8:05 am **Welcome Remarks** (*Prof. Armstrong & Prof. Daraio*)

8:05 - 8:20 am **Lead Site UArizona Leadership**

Dr. David Hahn and Dr. Mark Van Dyke

8:20 - 8:45 **NSF New Program Director** Dr. Mohan Kumar

IAB Chairs: Shai Gozani and Margaret Halstead

Vision, Capabilities, Value Proposition, and Roadmap

Prof. Roveda & Prof. Najafi

8:45 – 9:05 am **Keynote Breakthroughs and future in biosensors**

Prof. Joseph Wang, UCSD

10 minute break

9:15 – 10:45

Session 1: Project Reports (*Moderators: Prof. Armstrong & Prof. Daraio*)

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|-------------|--|---------------------------------|---------------------------|----------------|
| P006 | THERMAP -- Polymer-based temperature mapping devices | Caltech, mentor, Valsem | Nicholas Higdon | Caltech |
| P008 | Transcutaneous Electrical Nerve Stimulation For Lower Extremity In Patients With Post Acute Covid-19 Syndrome: PACS | BCM, mentor: NEuroMetrix | Alejandro Zulbaran | BCM |
| P011 | A Tele-Foot Exercise program with wearable sensors to prevent lower extremities muscle atrophy in patients with lower extremities edema | BCM, mentor: Medline | AmirBehzad Bagheri | BCM |



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|------|---|-----------------------------|------------------------------|---------|
| P018 | Using wearables to remotely track and screen risk of falling in older adults | BCM, mentor: BestBuy | Nesreen El-Refaei | BCM |
| P026 | Personal Virtual Assistant to Automate Engagement, Prevention, and Assessment Post Discharge to Reduce Risk of DVT in Oncology Patients | BCM, mentor: Smartek21 | Rasha Bara | BCM |
| P029 | Low cost acoustic & ultrasonic portable probe | Caltech, mentor: Think Labs | Danial Shahraki | Caltech |
| P001 | Wearable Wireless Eddy Current Sensors for Continuous Skin Edema and Brain Hemorrhagic Stroke Monitoring | Caltech, Mentor: Valsem | YC Tai | Caltech |
| P019 | Develop a "Star Trek Replicator" for wounds. | USC, Mentor: Valsem | Mark Swerdlow, | USC |
| P012 | Wearable Biosensor for Non-Invasive COPD Monitoring | Masimo | | |
| P004 | Multimodal Sensing Integrated with Mobility Aids for Monitoring Dehydration in Older Adults | MU, Mentor: Vac | Yadong Xu, Mentor: Zheng Yan | MU |

15 minute break

Session 3: New Members and New Projects (Moderator: David Armstrong & Chiara Daraio)

11:00 – 12:00 New Project Pitch for 2022

12:00 pm - 1 pm Joint lunch and networking with Health Tech Connect (Grand Canyon outdoor area)



1:00 HealthTech Connect

Welcome/Intro to HealthTech Connect

10 mins.

1:10 - 1:45 pm Keynote Prof. Kathleen Insel University of Arizona

1:45 - 2:15 pm Aegis Consortium – Dr. Janko Nikolich

30 mins.

2:15 Break

2:30 - 2:45 Organization Spotlight

15 mins.

Timothy Marlowe, PhD, Chief Scientific Officer

FAKnostics, LLC

Market Validation Essentials/Gateway/CEI tentative

Prove the value of your business idea with objective evidence before you launch.

2:45 to 3:05 P021 Body Change Assessment for Stress and Health Management (P21)

This talk discusses Taichi intervention for stress management with virtual reality (VR), multiple sensors (contact and contactless sensors) to measure stress and AI/ML algorithms in stress and health management.

Speakers: Prof. Zhao Chen (Associate Dean of Research, College of Public Health, UA)

Prof. Shu Fen Wung (Associate Professor, College of Nursing, UA)

Mr. Huayu Li (Ph.D Candidate, College of Engineering, UA)

3:05 instructions on how to access the feedback system (e.g., AirTable), how to complete the feedback form, and how C2SHIP will use the feedback, Prof. Roveda and Prof. Najafi

3:10-6:30 pm Industrial Booth/Demo (lobby and outdoor)

3:10-6:30 PM Poster sessions

4:30 - 6:30 pm Cocktail reception/dinner (outdoor Grand Canyon area) wine and cocktail will be served.



December 16

8:00 am Discussion (Moderators: Najafi and Roveda and Mashatian)

8:30 – 9:30 IAB organizational meeting and formative discussion, feedback on roadmaps and future directions. (Voting in a separate room)

Lunch box: 11:00 am



Sightseeing and exploring Arizona

Phoenix and Tucson Winter average temperature 68 F for High 44 F for low.

Sedona Winter Average Temperature 60 F for high and 34 F for low

Flagstaff/Grand Canyon 50 F for high 30 F for low

i. Sedona 119 miles north of Phoenix

Recommend: Fly to Phoenix, Drive to Sedona, Reserve hotel at Sedona to enjoy a lot sightseeing

Warnings: if you take highway 17 north, make sure NOT drive during late night or early in the morning when visibility can be problem. Highway 17 has a high wrong way driving accidents.



ii. Flagstaff / Grand Canyon (South Rim)

Flagstaff is 144 miles north of Phoenix

Grand Canyon is 80 miles from Flagstaff

Please check road conditions (It snows, may have fog and can get icy road at both locations)

Recommend: Fly to Phoenix, Drive to Flagstaff/Grand Canyon, Reserve hotel at Flagstaff (Ski at Flagstaff)

Warnings for highway 17 as item 1)





iii. Tucson

Tucson is 100 miles southeast of Phoenix (highway 10 **East**)

Tucson has airport as well (not as popular as Phoenix airport)

Univ. of Arizona is at Tucson, please let Janet and UA team know if you are coming.

Arizona Sonoran Desert Museum (duration 2-3 hrs), San Xavier mission Tucson

(duration 1 hr) PIMA Air & Space Museum (duration 1.5 hrs)

