

NSF IUCRC Center to Stream Healthcare In Place (C2SHIP) Annual Meeting

Voting Links

AirTable links on <https://c2ship.org>

IAB member links:

Projects

<https://airtable.com/appvtZHEVA93z7aQ7/shrYIDntAVsiWFTMh/tblcjs19CoiQixmFT>

Vote Table for New Projects:

<https://airtable.com/appvtZHEVA93z7aQ7/shrtjmKDauKqy44ME>

Faculty and Student link

<https://airtable.com/appvtZHEVA93z7aQ7/shrSkekvdwaMAV1UM/tblcjs19CoiQixmFT>

Friday, April 17 Pacific Time

Zoom Link: <https://arizona.zoom.us/j/87349653274>

8:30 – 8:35 am	Welcome Remarks <i>David Armstrong (USC Site Director)</i>
8:35 – 9:00 am	State of The Center (SOTC) and Roadmap <i>Prof. Janet Roveda & Prof. Bijan Najafi C2SHIP Directors</i>
9:00 – 9:10 am	IAB Chairs Opening Remarks: <i>Speaker SafetySpec Inc. Dr. Fartash Vasefi</i>
9:10 – 9:20 am	Break

9:20 – 10:20 am: Session 1: Project Reports/New Project Pitches
Moderators: *Skubic & Calyam*

Presentation (12 minutes + 3 minutes Q&A or Airtable inputs)

9:20 - 9:35 Y05- UCLA-P070: Revolutionizing Early Detection for Coronary Artery Disease
Mentor: HeartForce Medical, **PI** Peyman Benharash, MD, **Presenter:** Peyman Benharash

9:35 - 9:50 Y05-UA-P071: RF signal testing for medical applications
Mentor: Tiberius, **PI** Hao Xin, **Presenter:** Janet Roveda

9:50-10:05 Y02-MU-P034: The Smart Pillow: An In-home Sensing Platform for Tracking Health.

Mentor: Advanced Sleep Technologies **PI:** Marjorie Skubic **Presenters:** Ruhan Yi and Tasnim Zaman Adry

10:05:10:20 Y05- UCLA/USC -P073 Non-Invasive Optical Assessment of Plantar Tissue Health for Early Detection of Diabetic Foot Ulcer Risk (PIPA)

Mentor: SafetySpect, **PI:** Bijan Najafi, **Presenter:** Sona Mahrokhi Khousemehre, MD

10:20 – 10:30 am Break

10:30 am– 11:45 pm: Session 2: Project Reports

Moderators: Tavakolian

Presentation (12 minutes + 3 minutes Q&A or Airtable inputs)

10:30 - 10:45 Y05-UA-P055: Clinical trial on Medentum Device for COPD

Mentor: Medentum, **PI:** Wayne and Zhao , **Presenter:** Janet Roveda

10:45 - 11:00 Y03-MU-P049: Secure Framework for Cloud-Based Remote Patient Monitoring and In-Place Sensor-Based Care

Mentor: BodiGuide **PI:** Prasad Calyam **Presenter:** Chandra Bhamidipati

11:00 - 11:15 Y03-FIU/VACUCLA-047: Star-trek tricorder of wound physiology using a smartphone-based imaging device

Mentor: Medline **PI:** Anuradha Godavarty **Presenter:** Anuradha Godavarty

11:15 -11:30 Y04-MU/MST-P070: Human Fall Detection in Bathrooms Using Low-Cost LiDAR Sensors

Mentor: Foresite Healthcare **PI:** Ahmad Alsharoa **Presenter:** Alisha Johnson

11:30-11:45 Y05-UND-xxx: Data-Driven Monitoring in Elderly Care Using Sensor Analytics and Machine Learning

Mentor: CarePredict **PI:** Kouhyar Tavakolian **Presenter:** Kouhyar Tavakolian



<https://c2ship.org/>

C2SHIP Mission Statement:

The mission of the C2SHIP Center is to engage academic and industrial partners in joint efforts that develop healthcare technologies for in-place care and accelerate innovation through multi-specialty collaborations.

C2SHIP Strategy:

- Emphasize fundamental investigations that provide an in-depth understanding of the core disciplines needed for personalized technology that promotes in-place care
- Establish effective interactions with Center members to promote innovation capacity and accelerate technology transfer
- Promote collaborations with other existing centers to create multi-center innovative technology for the involved core disciplines

C2SHIP Competency:

- **Design**
 - Wearables/digital health/IoT/In-home device
 - Form factor optimization/Smart materials
- **Stream data/Data Fabric**
 - Patient interface/telemedicine/Data visualization
 - AI/Data fabric
- **Prototype testing**
 - Clinical study/Feasibility
 - Designing clinical trial/Bed to Bench

C2SHIP Thrust:

- **Post hospital care**
 - Value-based outcomes
 - Connected health/Healthy recovery
- **Care at home**
 - Wellness/Preventive care/Chronic care
 - Acute care/Triaging/Smart referral
- **Decentralized clinical trials**
 - Remote patient monitoring
 - Adherence reinforcement/retention





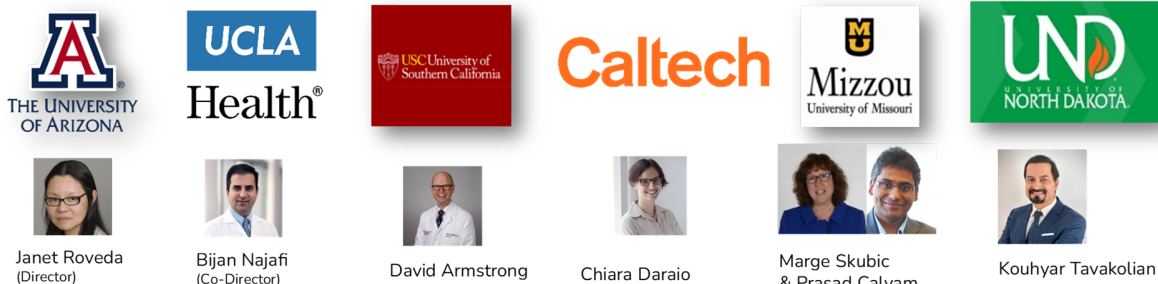
<https://c2ship.org/>

List of C2SHIP members since 2022



C2SHIP: Pioneering In-Place Healthcare Since 2022

DRIVING MEDICAL BREAKTHROUGHS BEYOND HOSPITAL WALLS



Six University Sites



IUCRC

C2SHIP.ORG



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