Blockchain HEALTHCARE Workshop
May 24-25th

The “Healthchain”
Explore application of blockchain technology to the unique challenges in healthcare during a 1.5 day workshop.

Healthcare Verticals
Focus of blockchain use in healthcare verticals of pharmaceutical supply chain, medical device, clinical trials, and genomics

Workshop Format
Focus on practical and professional development along with applied learning through design workshop

Register here:
Click here
## Workshop
### DAY 1

### 8:30am
**Continental Breakfast and Conference Registration**

### 9:00am
**Workshop Welcome and Agenda**

Joint UCSD-IEEE committee will introduce workshop format, objectives, and goals for Day 1 and 2.

- **Tim K. Mackey**, Director and Associate Professor, UCSD - Extension / UCSD - School of Medicine
- **Upkar Dhaliwal**, Vice Chair, IEEE San Diego Section, EMBS Chapter Chair
- **Maria Palombini**, Director, IEEE Standards Association

### 9:15am
**Keynote: Blockchain for Health?**

What is decentralized ledger technology and how can it revolutionize healthcare? Dr. Damani will discuss his thoughts about the future of blockchain and how it can transform other digital health solutions.

- **Samir Damani**, Co-Founder & CEO, MintHealth

### 10:00am
**Fit-for-Purpose: Blockchain Design**

Discussion about ensuring blockchain design is “fit-for-purpose” including blockchain design elements, architecture, data governance, application development, and tokens. Brief introduction to afternoon use cases.

- **Robert Barkovich**, CEO, HealthLinkages
- **Tim K. Mackey**, Director, UCSD - Extension

### 10:45am
**Platforms, Security & Digital Identity**

Discussion of blockchain compared to other types of technology, platforms, security issues, and importance of digital identity.

- **Sanjay Bakshi**, Principal Engineer, Intel Corp.
- **Mark Treshock**, IBM, Associate Partner

### 11:45am
**Potential for AI in Blockchain**

Exploration of different types of machine learning and reasoning computing for blockchain.

- **Khai Pham**, Founder & CEO, ThinkingNode, Inc.

### 12:30-1:45pm: Green Acre Patio
**Luncheon for Workshop Attendees and Networking and Exhibit Break**

### 1:45pm
**“Healthchain”: Vertical Use Cases**

This panel of leading experts in healthcare verticals will discuss blockchain use cases in different phases of conceptualization, pilot, testing, and commercialization with a focus on supply chain, medical device, clinical trials, and genomics. Panelist will discuss practical opportunities and challenges associated with blockchain adoption and use specific to verticals.

- **Pharmaceutical Supply Chain**
  - **Tim K. Mackey**, Director, UCSD - Extension

- **Medical Device Industry**
  - **Kevin Clauson**, Associate Professor, Lipscomb Univ

- **Clinical Trials**
  - **Basker Gummadi**, Bayer Pharmaceuticals

- **Genomics**
  - **Scott Kahn**, Chief Information Officer, Luna DNA
2:45-3:00pm
Coffee Break

3:00pm
**Beyond the Data Layer: DApps and Demos**

Explores ideas on decentralized application (DApps) development taking into consideration data architecture, healthcare use case, and end-user.

**Aaron Contorer**, CEO, FP Complete

**Andreas Freund**, Head of Technology, Tata Consultancy Service (invited)

3:45pm
**Regulatory, Legal, Security, and Privacy Considerations**

Panel discussion about legal and regulatory considerations with blockchain use in healthcare including confidentiality, privacy considerations, use of smart contracts, and legal frameworks such as HIPAA and GDPR (1.5 CLE.)

"**Impact of GDPR on Digital Health Technologies**"

**Joel Smith**, Managing Counsel, Qualcomm Life

"**Regulatory Challenges and Strategies to Blockchain**"

**Vahan Simonyan**, U.S. Food and Drug Administration (via remote participation)

5:15pm
Closing Statements Day 1

Short presentation on blockchain workforce data, closing for Day 1 and and instructions for Day 2 healthcare blockchain vertical applied workshops.

**Tim K. Mackey**, Director and Associate Professor
UCSD - Extension / UCSD - School of Medicine

**Upkar Dhaliwal**, Vice Chair
IEEE San Diego Chapter

**Maria Palombini**, Director
IEEE Standards Association

6:00pm: Green Acres Patio
Networking Reception Hosted by [Company Name]

4:30pm
**Blockchain Investment**

Perspectives from a healthcare incubator on what are the essential elements for blockchain projects to successfully attract funding and investment.

**Daniel Haders II**, General Manager, Nex Cubed.
Workshop

DAY 2

8:45am
Continental Breakfast and Day 2 Instructions

9:00-11:30am
“Healthchain” Vertical Breakout Design Sessions

On day 2, attendees will self-select to participate in one of four healthcare vertical breakout design sessions applying design approaches learned on day 1 to address critical challenges in healthcare. Breakout sessions will be led by a blockchain technical lead and a healthcare vertical content expert. Breakout groups will present design session results to entire group in Atkinson Auditorium.

Content Framework Speaker:
Ephraim Feig, IEEE, Life Fellow

Pharmaceutical Supply Chain
Content Expert Lead: Tim K. Mackey, UCSD
Location: Conference Room X

Medical Device Industry
Content Expert Lead: Kevin Clauson, Lipscomb Univ
Location: Conference Room X

Clinical Research
Content Expert Lead: Basker Gummadi
Location: Conference Room X

Genomics
Content Expert Lead: [TBD]
Location: Conference Room X

11:45am - 12:30pm: Atkinson Hall
Design Session Vertical Presentations

Participants from Vertical Breakout design sessions will present their ideas, designs, and SWOT analysis to entire group and invited panelists.

Location: Green Acre Main Room
Guest Judge: Daniel Haders II, General Manager, Nex Cubed.

12:30pm
Closing Remarks and Workshop Concludes

1:30 - 2:30pm
Workshop Satellite Meetings

Workshop satellite meetings conducted by UCSD and IEEE will be hosted after the conference. Please contact organizers if you wish to participate.

Blockchain education and professional development working group
Tim K. Mackey, UC San Diego - Extension
Location: Conference Room X

IEEE SA blockchain industry connections group
Maria Palombini, IEEE SA
Location: Conference Room X

IEEE SD chapter blockchain committee meeting
Upkar Dhaliwal, IEEE SD Chapter
Location: Conference Room X