First Breakout Session (Thursday Morning)

Models for programming and verifying SDI

- **Anduo Wang**: Software-Defined Networks as Databases
- **KC Wang**: How to Derive Abstraction for Software Defined Infrastructure and Software Defined Exchange
- **Rick McGeer**: Declarative Verifiable SDN Specification
- **Theo Benson**: Commoditizing the “S” in SDN with BareMetal Switching Infrastructure
- Aditya Akella
- Dan Kilper
- James Chacko
- Joe Touch
- Mehrdad Moradi
- Srinivasan Seshan

SDXes in practice (experience with SDX and SCI-DMZ deployments)

- **David Reese**: Pacific Wave SDX
- **Hyojoon Kim**: ScienceDMZ and IPS Bypass
- **Jerry Sobieski**: Thoughts on Research Topics and Tools for Future Research
- **Joe Mambretti**: Next Generation Infrastructure Based on SDI, SDN, and SDX Architecture and Technologies
- **Russ Clark**: Software Defined Infrastructure in the AtlanticWave SDX
- **Tom Lehman**: Software Defined Exchange (SDX) and Software Defined ScienceDMZ (SD-SDMZ) Ecosystem
- Arpit Gupta
- Balachander Krishnamurthy
- Bruce Patterson
- David Stern
- Haoyu Song
- Yang Guo

Co-evolving applications and infrastructure

- **Bryan Larish**: White Paper Response to Call for Participation: SDI/SDX Workshop
- **Glenn Ricart**: Whitepaper from Glenn Ricart
- **Nagi Rao**: Co-Designed SDIs for Computing and Physical Complexes Using Integrated Analytics
- **Rudra Dutta (NCSU)**: Human-Network Interaction: the Weakest Link?
- **Zhi-Li Zhang**: Integrating Application-Aware Virtualized Network Functions in Software-Defined Infrastructure
- Andy Bavier
- Ben Mack-Crane
Connecting across domains (policies, resource brokering, etc.)

- **Ilya Baldin**: *SDI Research Challenges and Opportunities*
- **John Moore**: *SDN Infrastructure Ecosystem*
- **Ken Calvert**: *Enhancing Network Services Through SDXs*
- **Malathi Veeraraghavan**: *Multi-domain, multi-layer software-defined infrastructure*
- **Mark Berman**: *Transforming Scientific Collaboration via Software-Defined Infrastructure*
- **S. J. Ben Yoo**: *A Market-Driven Broker Plane for Multi-Domain Software-Defined Infrastructures*
- **Alvaro Cardenas**
- **Byrav Ramamurthy**
- **Cees de Laat**
- **Ethan Katz-Bassett**
- **Hongxin Hu**
- **Inder Monga**
- **James Griffioen**
- **John Wroclawski**
- **Marco Canini**
- **Munindar Singh**
- **Raj Jain**
- **Tilman Wolf**
- **Tim Talty**
- **Xenofontas Dimitropoulos**
Second Breakout Session (Thursday Afternoon)

The future of programmable network hardware

- **Ben Mack-Crane**: Understanding and Managing Change in an SDN
- **Dan Kilper**: Deep programmability for optical systems in the future Internet
- **Haoyu Song**: Open Programmable Data Path: Towards White Box 2.0
- Balachander Krishnamurthy
- Bryan Larish
- David Stern
- Hyojoon Kim
- Jerry Sobieski
- Marco Canini
- Yang Guo

SDI as a marketplace

- **Bruce Patterson**: White Paper Response to Call for Participation: SDI/SDX Workshop
- **Cees de Laat**: The Service Provider Group Framework
- **James Griffioen**: SDXs as Resource Marketplaces
- **Munindar Singh**: Software-Defined Governance: Applying Computational Norms
- **Tilman Wolf**: Application for Participation in Software Defined Infrastructure / Software Defined Exchange Workshop
- Glenn Ricart
- John Moore
- John Wroclawski
- Ken Calvert
- Orran Krieger
- Rodrigo Fonseca
- S. J. Ben Yoo

Intereconnecting different technologies: mobile, optical, and storage

- **David Du**: Beyond the Internet: Convergence of Networking and Storage Becomes A Must
- **James Chacko**: Software-Defined Communication Testbed
- **Madeleine Glick**: Shaping and quality of service in SDN controlled hybrid optical/electrical networks enabled by machine learning
- **Mario Gerla**: A wireless SDN inter exchange for mobile systems
- **Tim Talty**: The Role of Mobile Assets in Future Software Defined Infrastructure
- Alvaro Cardenas
- Anduo Wang
- Hongxin Hu
- Joe Touch
- KC Wang
End-to-end: SDI across the wide area

- Aditya Akella: *Toward end-to-end software defined QoE*
- Byrav Ramamurthy: *Balancing Exchange Points Communication and Inter-controller Communication for Inter-Domain Routing*
- Inder Monga: *End-to-end, multi-domain SDN with SDI bookends*
- Srinivasan Seshan: *Cooperation Between Control Planes*
- Xenofontas Dimitropoulos: *Stitching Inter-Domain Paths over IXPs*
- Andy Bavier
- Arpit Gupta
- David Reese
- Ethan Katz-Bassett
- Ibrahim Matta
- Ilya Baldin
- Joe Mambretti
- Malathi Veeraraghavan
- Mike Zink
- Nagi Rao
- Raj Jain
- Raj Kettimuthu
- Rick McGeer
- Theo Benson
- Tom Lehman
- Yan Luo
- Zhi-Li Zhang
Third Breakout Session (Friday Morning)

Measuring and Monitoring

- **Balachander Krishnamurthy**: What we can learn from OpenFlaw
- **Mike Zink**: White Paper for Software Defined Infrastructure / Software Defined Exchange Workshop
- **Yan Luo**: Challenges and Opportunities of Measurement for Future Software Defined Infrastructure
- Ben Mack-Crane
- Cees de Laat
- Dan Kilper
- David Stern
- Nagi Rao
- Rudra Dutta (NCSU)
- Xenofontas Dimitropoulos

SDXes and the Internet model (layering, the end-to-end argument, AS model, etc.)

- **Arpit Gupta**: An Industrial-Scale Software Defined Internet Exchange Point
- **Ethan Katz-Bassett**: Real Internet Experiments for Future Internet Services
- **Ibrahim Matta**: BU submission
- **Joe Touch**: The role of state and layering in software-defined networking
- **John Wroclawski**: The Tiger Meets the Termite Mound: Toward Robust Inter-Domain SDN
- Bruce Patterson
- Bryan Larish
- David Du
- Ken Calvert
- Marco Canini
- Srinivasan Seshan
- Tom Lehman

Securing SDI

- **Alvaro Cardenas**: Secure Software-Defined Federated Networks
- **Hongxin Hu**: Virtualizing and Utilizing Network Security Functions for Securing Software Defined Infrastructure
- **Mehrdad Moradi**: Exploring Security and Mobile Operator Use Cases for SDX
- **Yang Guo**: SDI Workshop
- Byrav Ramamurthy
- David Reese
- Glenn Ricart
- Hyojoon Kim
James Chacko
James Griffioen
Joe Mambretti
John Moore
Malathi Veeraraghavan
Mario Gerla
Munindar Singh
Russ Clark
Tilman Wolf
Tim Talty

Virtualizing SDI in the datacenter and cloud

- Andy Bavier: *CORD: Central Office Re-architected as a Datacenter*
- Raj Jain: *Software Defined Cloud Virtualization for Multi-Cloud Applications*
- Raj Kettimuthu: *Software Defined Infrastructure: Challenges and Opportunities*
- Rodrigo Fonseca: *Towards a Network Marketplace in a Cloud*
- Aditya Akella
- Anduo Wang
- Haoyu Song
- Ilya Baldin
- Inder Monga
- Jerry Sobieski
- KC Wang
- Madeleine Glick
- Mark Berman
- Orran Krieger
- Rick McGeer
- S. J. Ben Yoo
- Theo Benson
- Zhi-Li Zhang