



# OpenFabrics Alliance Workshop

March 27-31, 2017

Hyatt Regency Austin  
Austin, TX, U.S.A.

## IMPORTANT DATES

**Submissions Due**  
February 10, 2017

**Acceptance Notice**  
February 24, 2017

## TECHNICAL PROGRAM COMMITTEE

**Paul Grun**  
*Committee Chairman*  
Cray

**Scott Atchley**  
Oak Ridge National Lab

**Chris Beggio**  
Sandia National Lab

**Paul Bowden**  
Intel, Inc.

**Susan Coulter**  
Los Alamos National Lab

**Steve Derenthal**  
Exxon Mobil

**Parks Fields**  
Los Alamos National Lab

**Jason Gunthorpe**  
Obsidian Research

**Divya Kolar**  
Intel, Inc.

**Christoph Lameter**  
Consultant

**Liran Liss**  
Mellanox Technologies

**Jim Pappas**  
Intel, Inc

**Jim Ryan**  
Consultant

**Gilad Shainer**  
Mellanox Technologies

CONTACT  
[press@openfabrics.org](mailto:press@openfabrics.org)

## CALL FOR SESSIONS

The annual OpenFabrics Alliance (OFA) Workshop is a premier event focused on advancing and enabling developments in network technology. It is the place to learn about emerging technologies, to collaborate with others, and to participate in driving network technology forward.

The workshop brings together network developers, consumers of network solutions and vendors.

## SESSION TOPICS

Proposals may cover various topics, such as:

### RDMA in Commercial Environments

- Virtualized hosts, storage devices, networks, & network interfaces
- Convergence of bare-metal/bare-wire & virtualized cloud & container architectures

### Distributed Applications & Services

- Parallel & shared memory apps
- Data analytics
- Pub/sub applications
- Message queueing libraries & services
- File systems, software-defined storage, fabric-attached storage
- Software-defined networks

### Data Intensive Computing & Analytics

- Hadoop, MapReduce
- Graph analytics
- Key value stores

### Communications Middleware

- OpenSHMEM
- MPI
- UPC++
- GasNet
- Chapel
- Legion, OCR, event-driven tasking runtimes

### Network APIs, Libraries & Software

- OpenFabrics Interfaces (OFI)
- Verbs API Extensions
- APIs for data storage, data access
- Open UCX
- Divergence of kernel & user APIs
- User space IP networking

### Persistent (Non-Volatile) Memory

- APIs for application
- Using RDMA fabrics
- Programming models

### RDMA in the Kernel

- New drivers & upper layer protocols
- Open source repositories
- Security & Containers
- RDMA core code
- Kernel / User ABIs

### Accelerators, FPGAs, GPUs

- Coherent user space access
- Direct access to accelerator memory
- Plumbing inside the kernel
- Direct attached and fabric attached accelerators
- The programmer's perspective

### Deploying RDMA

- Cloud-based deployments
- RDMA in commercial enterprises
- Government, academic, scientific HPC
- Virtualized data centers
- Wide-area distributed computing & storage
- Deploying RDMA technologies

### Management, Monitoring & Configuration

- Adaptive routing, routing between disjoint fabrics, subnet configuration, topologies
- Congestion control QoS
- Fabric performance
- Partitioned networks, security

### New & Advanced Network Technologies

- Hardware Platforms (x86, ARM, SoCs, embedded)
- Atomics, Multicast & Collectives
- Scalable fabrics
- User-level protocols over RDMA

### Future Directions in Networking

- Evolution of OpenFabrics Software
- Networking beyond RDMA

## SESSION FORMATS

**Single-speaker sessions** are generally 30 minutes.

**Panel sessions** are 60 minutes and are often the best way to stimulate debate.

**Lightning Talks** are designed to encourage fast-paced, free-form discussion. No advanced sign-ups are needed.

**Town Hall Meetings** are an opportunity for bringing forward topics needing attention from the community at large.

**Birds of a Feather sessions** or unscripted panel discussions may be included depending on interest.

## SUBMISSION INSTRUCTIONS

Submissions should include a topical abstract defining the subject and its networking relevance (max. 200 words); target audience profile; a brief speaker biography; and the proposed session format.

Click here to submit your proposal: <http://bit.ly/OFA2017CFS>. Proposals must be received by **February 10, 2017, 5:00 PM PST**. The Technical Program Committee will respond to proposals no later than **February 24, 2017**.

Contact [press@openfabrics.org](mailto:press@openfabrics.org) with questions.