**Call for Sessions**

The annual OpenFabrics Alliance (OFA) Workshop is a premier event focused on driving 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. Participants include:

* Application developers and end users
* Communications middleware developers
* Enterprise data center managers and architects
* System & network administrators
* Network and storage researchers
* Operating system, networking and storage vendors
* System OEMs, architects & integrators

**Session Topics**

Proposals for workshop sessions are being solicited in areas such as:

**RDMA in Commercial Environments**

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

**Distributed Applications and Services**

* Parallel and 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 and Analytics**

* Hadoop, MapReduce
* Graph analytics
* Key value stores

**Communications Middleware**

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

**Network APIs, Libraries and Software**

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

**Persistent (Non-Volatile) Memory**

* APIs for PM accesses
* Accessing PM over RDMA fabrics
* Programming models

**RDMA in the Kernel**

* New drivers and 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 the commercial enterprise
* Government, academic and HPC
* Virtualized data centers
* Wide-area distributed computing & storage
* Deploying multiple RDMA technologies

**Management, Monitoring & Configuration**

* Adaptive routing, congestion control
* fabric performance, IB IPoIB, Partitioned networks, QoS, routing between disjoint fabrics, security, subnet configuration, topologies,

**New and Advanced Network Technologies**

* Hardware Platforms (x86, ARM, SoCs, embedded),
* Atomics, Multicast & Collectives
* Scalable fabrics (existing and emerging)
* User-level protocols over RDMA (NFS, RPC, etc.)
* Network function virtualization - NFV

**Future Directions in Networking**

**Session Formats**

The workshop places a high emphasis on interactive exchange among participants. In that spirit, the workshop offers a number of ways to contribute:

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

**Panel sessions** are sometimes the best way to stimulate debate

**Lightning Talks** designed to encourage fast-moving, free form discussion. No advance signups are needed

**Town Hall Meetings** are an option for topics needing discussion by the community at large

**Birds of a Feather** offer an opportunity for folks to compare notes on a particular topic

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