

# ACM SIGCOMM

## Workshop on Computer Networking: Curriculum Designs and Educational Challenges



ACM SIGCOMM 2002 CONFERENCE  
PITTSBURGH PA ~ AUGUST 19-23

# Welcome!

- we have a terrific group of people here:
  - academia and industry
  - small, medium, large schools
  - internationalall of whom care about education, learning
- look forward to a day of discussion, learning, and enlightenment!

# Why are we here?

- ❑ **learn about/discuss** what others are doing (or thinking about) in curriculum design and teaching practices
- ❑ **leverage** each other's work:
  - lessons learned
  - resources (e.g., course materials)
- ❑ **information/resources** for the community
  - report
  - model curricula, as adjunct to ACM/IEEE 2001 recommendations

# Workshop agenda/format

- ❑ *3 highly interactive panels*: equal parts panel presentations, open discussion
  - undergraduate curriculum
  - networking labs
  - graduate curriculum
- ❑ *parallel breakout session*
  - report back, discussion, next steps
- ❑ *posters* during breaks
- ❑ *lots (and lots and lots) of discussion*

# A few logistics....

- posters
- travel grant reimbursements
- other questions/issues .....?

# Thanks!

- ❑ *participants*: who will make this happen
- ❑ *ACM Sigcomm*: sponsorship, local arrangements
- ❑ *NSF*: travel grants
- ❑ *organizers*:
  - J. Kurose, J. Liebeherr, M. Murray, E. Nemeth, S. Ostermann, T. Ott-Boisseau

# Introductions all around...

- who are you?
- where are you from?
- anything else you want to say?
  - particular interests?
  - something particular you hope comes out of the workshop

# Panel 1: Undergraduate Curriculum

Chair: Shawn Ostermann (Ohio U.)

Panelists:

- Russell Clark, Georgia Tech
- Ralph Droms (Cisco),
- Michael Greenwald (U. Pennsylvania)
- Dave Morgan (Fidelity)
- Craig Partridge (BBN)

## Panel 2: Networking Labs

Chair: Jorg Liebeherr (U. Virginia)

Panelists:

- Ann Burroughs (Humboldt State U.)
- Magda El Zarki (UC Irvine)
- Doug Comer (Purdue U.),
- Gene Longo (Cisco)
- Nick McKeown (Stanford U.)

## Panel 3: Graduate Curriculum

Chair: Jim Kurose (U. Massachusetts)

Panelists:

- K. Calvert (U. Kentucky)
- S. Jordan (UC Irvine)
- R. Yavatkar (Intel)
- T. Znati (U. Pittsburgh/NSF)

## Panel 3: Graduate Curriculum

- ❑ is there an emerging *graduate* "core"?
  - courses versus topical seminars
  - which courses?
  - win a Comer award?
- ❑ different student constituencies: MS, MIS, PhD
  - want different skills, material
- ❑ what do you teach, and why?
- ❑ theory versus practice
- ❑ MS and PhD programs in networking, telecom

# Parallel Breakout Session

- *discussion topics*: up to participants!
- *report-back*: identify “scribe” who will report back to larger group
  - what was discussed?
  - points of consensus, violent disagreement
  - future steps: building on today's discussion

# Moving forward.....

- ✓ post panelist and discussion group slides  
gaia.cs.umass.edu/workshop1.html
- ✓ email discussion group  
sigcomm\_education@cs.umass.edu
- ✓ undergrad document: input to ACM, IEEE (Shawn O.)
- ✓ leverage repository of lab curriculum (Jha)

## Other actions:

- ❑ anyone else want to include a white paper?
- ❑ pointers to course syllabi (Maurice A.)?
- ❑ Liason to computer engineering group (Miguel L.)
- ❑ COMSOC liason (Dave T)
- ❑ other ideas?

# Thanks again

- *participants*: who made this happen
- *ACM Sigcomm*: sponsorship, local arrangements
- *NSF*: travel grants
- *Organizers and volunteers pressed into service*