Internet2
CIO Delegation to China

John Chapman
Georgetown University
<table>
<thead>
<tr>
<th>Name</th>
<th>University/Role</th>
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<tbody>
<tr>
<td>Dave Lambert</td>
<td>Internet2</td>
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<td>Steve Wolff</td>
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<td>Ana Hunsinger</td>
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<td>John Chapman</td>
<td>Georgetown University</td>
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<td>Charles Leonhardt</td>
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<td>Marilyn McMillan</td>
<td>New York University</td>
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<td>Tom Delaney</td>
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<td>Anita Nikolich</td>
<td>University of Chicago</td>
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<td>Jack Suess</td>
<td>University of Maryland Baltimore County</td>
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<td>Don Riley</td>
<td>CANS Founder, University of Maryland</td>
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<td>Shuigen Xiao</td>
<td>CANS Founder, Georgetown University</td>
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<tr>
<td>Date</td>
<td>Location</td>
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<td>August 5</td>
<td>Beijing</td>
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<td>August 7</td>
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<td>August 8-10</td>
<td>Kunming</td>
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<td>August 11</td>
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<td>August 12</td>
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*Delegation Agenda*
* Solidified relationship
* Build model better support US universities in China
* Reaffirm importance US-China research and academic collaborations
* IPv4 / IPv6
* 10G link Beijing - Los Angeles

Photo courtesy of Tom Delaney

*CERNET Tsinghua University*
* Improve understanding of US universities needs and requirements
  * Private VPN, bandwidth, services
  * Local relationships
  * Need flawless networking
  * US university moves towards cloud
  * Telepresence
* Internet2 actions
  * Set up meeting between CERNET.com, CERNET and US CIOs
  * Convene BOF meeting of schools with interests in China
    Monday 12:15 (Lunch provided)
* Importance of working actively with CNIC/CAS
* Hundreds of research centers connected via CTSNET
* Need increased dialogue and collaborations
* Performance issues and network support
* Importance of NSF

* CTSNET NSF Internet2

Photo courtesy of CAS HQ
Open for business
Ethnically diverse
Interest in developing international relationships in finance, engineering, and education
Kunming
  * Location of telecommunications 4th international exchange point
  * Core connection to South Asia
  * Yunnan University
* Stone Forest (UNESCO World Heritage Site)

Yunnan Province

Photos courtesy of John Chapman
* Pre-conference SIG meetings
  * IPv6
  * OpenFlow/Open Science Exchange
  * International Connectivity and End-to-End Performance
  * Federated Identities and Authorization

* Sessions on:
  * University technology organization and management, and on how to support remote education and "campuses abroad."
  * Video conferencing and Telepresence
  * Sensor networks
  * Internet of Things

* Build relationships for future cooperation
US Attendees:

Shuigen Xiao
Dave Lambert
Steve Wolff
Ana Hunsinger
Tom Delaney
Marilyn McMillan
Jack Suess
John Chapman
Bill Chang
Don Riley
Charles Leonhardt
Anita Nikolich
Edward Moynihan
Steve Cotter
Chip Elliott
KC Claffy
Dan Massey
Robert Johnson
Michael Sinatra

*CANS 2011*
* Seven research centers in Humanities and Social Sciences
* National Center for Teaching Chinese as Second Language
* Confucius Institutes with 6 international universities and colleges (2 in USA)
* Joint academic programs with US universities (George Mason, Princeton, U of Cal., Dartmouth College)
* Constructing new campus
  * Invitation to engage in new international programs
* Medical imaging research
* 3D visualization

* Beijing Normal University
* Experimental WiMax campus network
* 50,000 students; 10,000 faculty
* Digital University
  * Teaching, research, finance management, asset management

* Advanced Industrial Technology Research Institute (AITRI)
  * Academic and commercial collaboration
  * Value creation for society (currently missing from higher education)
  * Investigation of mobility computing
    * Cloud-based car
  * Partnerships with global industries such as IBM

* Shanghai Jiao Tong University
* Research institutes in humanities and social sciences
* Joint programs
  * NYU, U Guelph, U Virginia, Lyon, CIEE, Colorado State
  * Global Education Center
  * Largest overseas (study abroad) student body in China
  * Confucius Institutes - 6 in USA
* Sponsor for NYU Shanghai campus

*East China Normal University

Photo courtesy of John Chapman
“The delegation provided CIOs with an unprecedented opportunity to discuss the future of international networking with our University peers in China. Going well beyond topics like IPv6, Openflow, and federated identity management, we had an opportunity to form strong professional relationships and friendships that will help us to move global networked higher education to a higher level.”

Tom Delaney, New York University

“CANS 2011 allowed me to connect with colleagues at institutions in China which face the same cyber infrastructure and personnel challenges as us. It was refreshing to see that these problems (talent retention, funding, service cost models) are universal!”

Anita Nikolich, University of Chicago