Academic Consortium for the 21st Century

Fourth international forum
University Partnerships:
Global Collaboration & Innovation for the 21st Century

27 – 30 July 2008
North Carolina State University
Raleigh, North Carolina USA
Chancellor’s Welcome

On behalf of North Carolina State University, I want to welcome you to the 2008 AC21 International Forum. We are delighted to have this opportunity to host our colleagues from AC21 member institutions as well as representatives from other universities and organizations from around the world. At this Forum, nine countries in addition to the US are represented, promising a truly global conversation about higher education that is unprecedented at NC State and for North Carolina.

The theme we have selected for the Forum, “University Partnerships: Global Collaboration and Innovation for the 21st Century,” reflects NC State’s recognition that global problems require collaborative solutions and that we must reach across boundaries, both within and outside our universities, to find multidisciplinary and multifaceted solutions. At North Carolina State, we are particularly focused on partnerships: between faculty and students across our academic colleges, between our institution and the communities, businesses, and industries which rely on our research and on the students we prepare, and between our campus and those of our international partners. Through AC21 and gatherings such as this one, we are able to expand our global educational partnerships well beyond what would be possible through bilateral partnerships alone.

This year’s Forum will provide an opportunity to explore the power of partnerships in three areas: International Student and Academic Exchange, Global Higher Education, and Innovation and Technology Transfer. These are timely topics to which we are dedicated at NC State. At the Forum, we will share what we are doing in these areas and learn new approaches from you. I look forward to the opportunity to meet all of you and introduce you to the innovative people and programs that characterize North Carolina State.

Along with the opportunity to host the Forum comes the responsibility for me to chair the AC21 General Assembly, which will meet on Wednesday afternoon after the conclusion of the Forum. I want my AC21 colleagues to know how much I look forward to working with them as the consortium considers expanded membership and continues toward its goal of encouraging global cooperation to benefit higher education and contribute to world and regional society.

For NC State, the benefits of membership in AC21 extend well beyond opportunities such as the Forum to learn from their peers about common concerns for our universities in the 21st century. Twice, NC State has sent students to AC21 Student Forums, most recently in 2007, when two of our students to the AC21 Student Forum 2007 in Paris, hosted by our colleagues at École Nationale des Ponts et Chaussées. NC State’s students were attracted to the Student Forum’s theme, Sustainable Cities, and its workshops on energy, transport, building, and housing because of their interests in sustainable energy and urban design. These and other outstanding students represent the dedication of the next generation of leaders to urgent issues our world will face in the 21st century. AC21’s programs help ensure that students and their institutions have the opportunity to share experiences and perspectives with their counterparts from around the world.

At this point, I would like to recognize the leaders representing AC21 member institutions that contribute to the reach and impact of AC21.

- Dr. Shin-ichi Hirano, President, Nagoya University
- Prof. Kua Wongboonsin, Vice-President, Chulalongkorn University
- Prof. Zhang Jie, Vice President, Shanghai Jiao Tong University
- Prof. Gerhard Schneider, Chief Information Officer, University of Freiburg
- Prof. John Hearn, Deputy Vice-Chancellor, University of Sydney
- Prof. Michael Whitby, Pro Vice-Chancellor, University of Warwick

We are also delighted to welcome Mr. Hideo Tamai, Deputy Minister at the Ministry of Education, Culture, Sports, Science and Technology, who will bring a welcome from the government of Japan to the Forum in a few moments.

I want to speak briefly about NC State’s participation in AC21 before introducing our next speaker. NC State, currently the only US member institution, joined AC21 as a result of our decades-long partnership with Nagoya University, where AC21 was envisioned and is housed. NC State and Nagoya have exchanged students for over 20 years, and since the establishment of the Nagoya University Program for Academic Exchange (NUPACE) in 1996, NC State has been Nagoya’s most active US exchange partner, with nearly 60 students to study at Nagoya. Our academic relationship extends beyond traditional exchange programs. For example, this summer, four NC State students have joined students from Nagoya and other partner institutions at the Nagoya University Summer Intensive Program on to study new technologies in automotive engineering. Earlier this year, several graduate students representing Nagoya’s Center of Excellence in systems biology visited NC State to meet with our faculty and share their research in this area.

In 2007, the partnership between NC State and Nagoya University was expanded through signing of a Memorandum of Agreement to cooperate in promoting industry-university collaboration and joint research, particularly technology transfer. Nagoya University has established NU Tech, the Technology Partnership of Nagoya University in the Research Triangle area to promote international technology transfer. Our partnership will allow both institutions to gain a greater understanding of each institution’s research strengths and valuable knowledge about both Asian and US technology markets and business best practices. Our partnership with Nagoya continues to expand and deepen, both through bilateral activities and through our membership in AC21.

Nagoya’s leadership in global education is a reflection of the vision and energy of its president, Dr. Shin-ichi Hirano. Serving as president since 2004, President Hirano has strengthened Nagoya University’s national and international profile in areas such as research development, technology transfer, economic development and, of course, international education. I want to offer a special welcome to President Hirano and his colleagues from Nagoya University and AC21. I am delighted to welcome him to NC State again and to thank him for his vision, energy, and collegiality with universities with a common purpose around the globe.

AC21 Members

Chemnitz University of Technology (Germany)
Chulalongkorn University (Thailand)
Fudan University (China)
Gadjah Mada University (Indonesia)
Huazhong University of Science and Technology (China)
Jilin University (China)
Kasetsart University (Thailand)
Nagoya University (Japan)
Nanjing University (China)
National University of Laos (Laos)
North Carolina State University (U.S.A.)
Northeastern University (China)
Peking University (China)
Shanghai Jiao Tong University (China)
The University of Adelaide (Australia)
The University of Freiburg (Germany)
The University of Sydney (Australia)
The University of Warwick (U.K.)
Tongji University (China)
Preface

North Carolina State University was honored to host the 2008 AC21 International Forum. The speakers, panel discussions, and other Forum Events brought together over 125 participants from AC21 member institutions and other colleges, universities, industry partners, and state and federal agencies to discuss topics related to the Forum theme, “University Partnerships: Global Collaboration and Innovation for the 21st Century.”

This report includes biographies of major Forum speakers, session summaries, a list of participants, and pictures highlighting Forum events. If you attended the Forum, we hope the report will remind you of the people and new ideas you encountered at NC State.

If you did not attend the 2008 Forum, we hope it will encourage you to participate in the next AC21 Forum to be hosted by Shanghai Jiao Tong University in October 2010.

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Welcome from the Conference Coordinator

Welcome to North Carolina State University & the Fourth AC21 International Forum.

A little over a year ago, we took on the challenge of hosting the Forum on our campus. Thanks to the support of NC State University administrators, faculty, & staff, the AC21 Secretariat, & AC21 members, we have put together a program that exemplifies the Forum theme, “University Partnerships: Global Collaboration & Innovation for the 21st Century.”

On Monday, we will come together to hear from representatives of AC21 member universities & state & national experts on topics related to international educational & cultural exchange, university-industry partnerships, & the contributions of universities to innovation & economic development.

Three concurrent groups of panel discussions, to be held at different locations on NC State’s Centennial Campus, will emphasize the importance of partnerships & collaborations at home & abroad to universities’ effectiveness in the 21st century:

• International Student & Academic Exchange
• Challenges for Global Higher Education
• Innovation & Technology Transfer

We invite you to choose the location with sessions of greatest interest to you & engage with the speakers in exploring how their experiences & ideas can inform programs & activities on your campus. After the sessions, participants at each location will have the opportunity to tour NC State facilities dedicated to innovation & collaboration: the Solar House, the Friday Institute for Educational Innovation & the Biomanufacturing Training & Education Center.

On Wednesday, we will come together again to hear from AC21 institutional leaders about their universities’ strategies for globalization & from state leaders about how university-industry partnerships have contributed to the development of the “knowledge economy” in North Carolina. Also on Wednesday, students & faculty members from AC21 & other institutions will participate in a “Festival of International Collaborative Research, Student Research & Engagement.” The participants’ posters will show how individuals & institutions have brought the Forum’s theme.

Besides the speeches, panel discussions, & posters, we have provided less formal opportunities for fellowship with our colleagues from around the world. On Monday evening, we will gather for a reception at the E. Carroll Joyner Visitor Center, NC State’s “front door” for prospective students & other visitors to campus. On Tuesday evening, we have a real treat in store: a reception at the internationally recognized North Carolina Museum of Art. At the reception, you will have a chance to tour the Museum’s exhibits, enjoy a special buffet, & talk with colleagues & friends you have made at the Forum.

We hope you enjoy your time at NC State & the opportunity to share experiences with colleagues from around the world. And if this is your first visit to NC State, we hope it will not be the last. We hope you will come back often to visit NC State, Raleigh, & North Carolina.

Betsy E. Brown
Vice Provost For Faculty Affairs
NC State University
2008 AC21 International Forum Coordinator
Academic Consortium 21

Established by Nagoya University in 2002, the Academic Consortium for the 21st Century (AC21) exists to encourage the further advancement of global cooperation to the benefit of higher education and to contribute to world and regional society. The Consortium has a general secretariat at Nagoya University in Japan.

AC21’s Vision is to promote cooperation in education and research between members; to act as a bridge between different societies in the world; to deliver wisdom to all people so that they mutually understand and share values, knowledge and cultures and thus improve the quality of life; and to foster co-existence beyond national and regional boundaries in the 21st century.

For more information on AC21 visit www.ac21.org

North Carolina State University

Established as the “People’s University” in 1887, North Carolina State University, hereafter referred to as NC State or NCSU, continues to follow the mission upon which it was founded—to provide teaching, research, & extension services to the people of North Carolina. Since its inception, NC State has developed into a vital educational & economic resource, & a wealth of university outreach & extension programs provide services & education to all sectors of the state’s economy & its citizens. Today, with more than 31,000 students & nearly 8,000 faculty & staff, NC State University is a comprehensive university known for its leadership in education & research, & globally recognized for its science, technology, engineering & mathematics leadership.

NC State is consistently ranked a national best value & among the nation’s top 40 public universities & is committed to playing an active & vital role in improving the quality of life for the citizens of North Carolina, the nation & the world.

NC State is located in the world renowned Research Triangle. More than 1 million people live in the area, which is also home to Research Triangle Park, the largest planned research park in the United States. The Triangle is consistently rated among the top 10 cities in the nation to live & work. NC State’s campus is urban but surrounded by trees, green space and friendly people.

For more information visit www.ncsu.edu

Nagoya University

Nagoya University was originally founded as a medical school about 135 years ago. Then, in 1939, it became an imperial university. In these nearly 70 years of history, Nagoya University has generated a truly remarkable number of outstanding achievements in research and development and has nurtured and developed people who make a positive contribution to society. We believe these shining successes were founded on an open academic atmosphere, of which the university can justly take pride, and were realized through the presence of outstanding educators and researchers - the well-springs of knowledge - coupled with an unwavering belief in the importance of fostering the freedom of thought as we push forward.

It is through our creative activities at the forefront of education and research, across the whole spectrum of our activities in the humanities, social sciences, and natural science, that Nagoya University develops "courageous intellectuals" with courage and the sense of humanity needed to stand at the forefront of knowledge creation and shoulder the burdens of the future. It is through these individuals that Nagoya University makes its contribution to society.

For more information visit www.nagoya-u.ac.jp/en

Other AC21 Partners

- Advantage West Midlands
- Asia House
- CHUBU Electric Power Co., Inc.
- ITOCHU Corporation
- NGK Insulators, LTD.
- Toyota Motor Corporation

For more information visit www.ncsu.edu
**Conference Highlights**

**Sunday 27 July**

2:00pm Steering Committee Meeting and Dinner

**Monday 28 July**

9:00am Forum Opening Session

(L to R) Dr. James L. Oblinger, Chancellor, NC State University; Dr. Shin-ichi Hirano, President, Nagoya University; Mr. Hideo Tamai, Deputy Minister, Ministry of Education, Culture, Sports, Science & Technology Japan; Dr. Betsy E. Brown, AC21 Forum Coordinator

9:45am Keynote Presentation

Developing Talent for the Innovation Society: University Student Exchanges

Mr. Thomas A. Farrell, Deputy Assistant Secretary for Academic Programs, Bureau of Educational & Cultural Affairs, U.S. Department of State

12:15pm Guest Speaker

Industry-University Partnerships for Regional Economic Development

Mr. Charles Hayes, President & CEO, Research Triangle Regional Partnership

4:00pm Tour NCSU Solar House

Dedicated and opened to the public in 1981, the Solar House at North Carolina State University is one of the most visible & visited solar buildings in the United States. Over the last two decades, more than 250,000 people from around the world have toured the facility.

5:30pm Welcome Reception

AC21 participants wrapped up the first day of the International Forum with a welcome reception held in the E. Carroll Joyner Visitor Center.

**Tuesday 29 July**

9:00am Special CIO’s Session

4:15pm Guided Tour of the NCSU Biomanufacturing Training & Education Center

6:00pm Reception

North Carolina Museum of Art The NC Museum of Art boasts a collection of more than 5,000 works of art. The NCMOA is perhaps best known for its outstanding European collection, which includes works by masters of European painting and sculpture, from the Renaissance through impressionism.

**Wednesday 30 July**

9:00am Plenary Session

The NC Biotechnology Center: An Economic Development Collaboration between the State, Industry, & Higher Education

Mr. Norris Tolson, President, North Carolina Biotechnology Center

11:45am Special Guest Speaker

Welcome on behalf of the State of North Carolina

Mrs. Mary P. Easley, First Lady of North Carolina & Executive in Residence, NC State University

12:00 Noon Festival of Research

International Scholars & Student Researchers held a special poster session where cutting edge research was showcased.

1:15pm Forum Closing Session

(L to R) Dr. Betsy E. Brown, AC21 Forum Coordinator; Mr. Eberhard Alles, Chancellor, Chemnitz University of Technology; Prof. Ye Quyuan, Deputy President, Shanghai Jiao Tong University
### Monday

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<th>TIME</th>
<th>SESSION</th>
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<tr>
<td>9:00-9:45am</td>
<td>Forum Opening Session Conference Welcome &amp; Opening Speeches</td>
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<td>Dr. James L. Oblinger, Chancellor, NC State University</td>
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<td>Dr. Shin-ichi Hirano, President, Nagoya University</td>
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<td>Mr. Hideo Tamai, Deputy Minister, Ministry of Education, Culture, Sports,</td>
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<td>Dr. Betsy E. Brown, AC21 International Forum Coordinator</td>
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<td>9:45-10:45am</td>
<td>Keynote Presentation</td>
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<td>Introduction: Dr. James L. Oblinger, Chancellor, NC State University</td>
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<td>Keynote Speaker: Mr. Thomas A. Farrell, Deputy Assistant Secretary for</td>
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<td>11:00-12:15pm</td>
<td>Presidents’ Panel Discussion: University-Industry Partnerships</td>
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<td>Moderator: Dr. Larry A. Nielsen, Provost &amp; Executive Vice Chancellor, NC</td>
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<td>State University</td>
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<td>Prof. Kua Wongboonsin, Vice President, Chulalongkorn University</td>
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<td>Mr. Eberhard Alles, Chancellor, Chemnitz University of Technology</td>
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<td>Dr. Shin-ichi Hirano, President, Nagoya University</td>
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<td>12:15-1:15pm</td>
<td>Lunch Introduction: Dr. Terri Lomax, Interim Vice Chancellor for Research</td>
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<td>&amp; Graduate Studies, NC State University</td>
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<td>Industry-University Partnerships for Regional Economic Development</td>
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<td>Mr. Charles Hayes, President &amp; CEO, Research Triangle Regional Partnership</td>
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<td>1:15-2:30pm</td>
<td>Panel Discussion: University-Industry Partnerships: Automotive Technology</td>
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<td>Moderator: Dr. Blanton Godfrey, Dean, College of Textiles, NC State</td>
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<td>Dr. Noboru Kikuchi, Toyota Research Institute of North America</td>
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<td>Dr. Chris Frey, NC State University</td>
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<td>Dr. Tiegang Fang, NC State University</td>
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<td>2:45-4:00pm</td>
<td>Institutional Opportunities through International Academic Consortia</td>
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<td>Moderator: Dr. Gilbert Merks, Vice Provost for International Affairs, Duke</td>
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<td>University &amp; President, Association of International Education Administrators</td>
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<td></td>
<td>“The Consortium Experience: Opportunities &amp; Challenges”</td>
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<td></td>
<td>Dr. Nami Iwaki, Project Coordinator, AC21, Nagoya University</td>
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<td>Challenges”</td>
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<td>Dr. John Hearn, Vice President (International), the University of Sydney</td>
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<td>4:00-5:15pm</td>
<td>Closing Remarks Dr. Betsy E. Brown &amp; Tour NC State University Solar House</td>
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<td>5:30pm</td>
<td>Welcome Reception E. Carroll Joyner Visitor Center</td>
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### Tuesday Theme I INTERNATIONAL STUDENT & ACADEMIC EXCHANGE

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<th>TIME</th>
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<tr>
<td>9:00-10:15am</td>
<td>New Models for International Study &amp; Exchange</td>
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<td>Moderator: Ms. Katrin Schulz, Chemnitz University of Technology</td>
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<td>“The Asia-Oceania Transect: A Collaborative Initiative for the Environmental Education of University Students Organized by University Museums”</td>
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<td>Prof. Mamoru Adachi, Nagoya University</td>
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<td>“Learn a Foreign Culture through E-Communication”</td>
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<td>Prof. He Ning, Nanjing University</td>
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<td>“NC State’s Global Training Initiative”</td>
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<td>Mr. Michael Bustle, NC State University</td>
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<td>10:15-11:30am</td>
<td>Measuring Students Global &amp; Intercultural Competence</td>
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<td>Moderator: Ms. Brooke Ashley, NC State University</td>
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<td>“Thai Students’ Competence”</td>
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<td>Prof. Kua Wongboonsin, Chulalongkorn University</td>
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<td>“The Certificate of Global Proficiency”</td>
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<td>Ms. Ingrid Schmidt, NC State University</td>
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<td>“Key Points in Assessing Intercultural Competence”</td>
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<td>Dr. Darla Deardorff, Duke University</td>
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<td>11:45-12:45pm</td>
<td>Easing the Transition to Campus for International Students</td>
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<td>Moderator: Dr. Miki Horie, Deputy Director, AC 21, Nagoya University</td>
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<td>“Two Under One Roof: How One Copes with the Other”</td>
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<td>Dr. Kai Li Liu, Kainan University</td>
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<td>“Activities to Support International Students on Campus” Ms. Pam Cook, NC</td>
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<td>Mr. Anuj Ladkani, Maitri (Graduate Indian Student Association), NC State</td>
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<td>1:30-2:45pm</td>
<td>Undergraduate Research Opportunities at NC State</td>
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<td>Moderator: Dr. George Barthalms, NC State University</td>
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<td>“NC State’s Undergraduate Research Program” Ms. Judy B. Day, NC State University</td>
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<td>“International &amp; NC State Students Involved in Summer Research Programs”</td>
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<td>“Undergraduate Research Opportunities for International Partners’Ms. Sarah Hall Cao, NC State University</td>
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<td>“Undergraduate Research Students” Dr. Yuan-Shin Lee, NC State University &amp; Dr. Stefan Franzen, NC State University</td>
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<td>3:00-4:15pm</td>
<td>International Service Learning: A Model For Student Success in a Global Society</td>
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<td>Moderator: Deidre O’Malley, Associate Director, Study Abroad NC State University</td>
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<td>Dr. Emmanuel O. Oritsejafor, North Carolina Central University</td>
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<td>Dr. Patti Clayton, NC State University</td>
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<td>Mr. Mike Giancola, NC State University</td>
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<td>4:15-5:30pm</td>
<td>Tour of Biomanufacturing Training &amp; Education Center</td>
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<td>6:30pm</td>
<td>Reception North Carolina Museum of Art</td>
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Main Conference Sessions

**Tuesday Theme II**  
**CHALLENGES FOR GLOBAL HIGHER EDUCATION**

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<th>TIME</th>
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| 9:00-10:15am  | Higher Education Leadership Challenges  
Moderator: Dr. Glenn Kleiman, NC State University  
“The Flat World & Multi-dimensional Cooperation from a Chinese Perspective”  
Ms. Susan Zhang, Nanjing University  
“The Merging of Universities” Dr. Mireille Matt, University of Strasbourg |  
| 10:15-11:15am | Support for Faculty International Activity  
Moderator: Dr. Hanna Gracz, NC State University  
“Fostering Collaborative International Research: A Perspective from the United Kingdom” Dr. Edward Harcourt, University of Warwick  
“Rewarding Faculty International Activities” Dr. Robert Korchersberger, NC State University |  
| 11:30-12:45pm | Educating Teachers: National Challenges  
Moderator: Dr. Kathryn Moore, NC State University  
“Leadership & Teacher Preparation for the Flat World” Ms. Alice Lentz, Caldwell Community College & Technical Institute  
“The New Literacies” Dr. John Lee, NC State University  
Matt Friederick, NC State University |  
| 1:45-3:00pm   | Strategies for Internationalizing the University  
Moderator: Dr. Bailian Li, NC State University  
“International Strategies of Ministry of Education in Japan” Mr. Naoki Himiya, Ministry of Education, Culture, Sports, Science & Technology, Japan  
“University Internationalization: What’s in it for Me?” Mr. Eberhard Alles, Chemnitz University of Technology  
“Multilateralism, Capacity-Building & the ‘New Sustainability” Prof. Colin B. Grant & Mr. James MacBain, University of Surrey |  
| 3:15-4:00pm   | Innovations in Teaching & Learning  
Moderator: Dr. Carol Kasworm, NC State University  
“The Development of Teaching & Learning at Japanese Research Universities” Dr. Masahiro Chikada, Nagoya University  
“NC Community College System Virtual Learning Community” Dr. Saundra Williams, North Carolina Community College System  
“Engagement Trends: The Integration of Teaching, Learning, Service & Research” Dr. Susan Bracken, NC State University |  
| 4:30-5:30pm   | Tour of Friday Institute with Mr. Andy Overstreet & Mr. Dave Frye |  
| 6:30pm        | Reception North Carolina Museum of Art |  

**Tuesday Theme III**  
**INNOVATION & TECHNOLOGY TRANSFER**

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<th>TIME</th>
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| 9:00am         | Introduction: Dr. Betsy E. Brown, NC State University  
“Industry-University Partnerships on NC State’s Centennial Campus” Dr. Jack Goldfrank, President, Center for Packaging Innovation, MeadWestvaco |  
| 9:45-11:15am  | Personalized Medicine  
Moderator: Dr. Gregg A. Dean, NC State University  
“Personalized Medicine” Prof. Yulin Li, Jilin University  
“Stem Cell Science & Ethics: Towards Regenerative Medicine” Prof. John Hearn, University of Sydney  
“Therapeutic & Diagnostic Application of Endothelial Progenitor Cell” Prof. Toyoaki Murohara, Nagoya University  
“RNA from Chemical Genomics to Treatment Target: A New Key to Medicines” Prof. Donald R.J. Singer, University of Warwick |  
| 11:30-1:00pm   | Technology & Innovation Management  
Moderator: Dr. James J. Zuiches, NC State University  
“Technology Transfer Working with the Intellectual Cluster: Application of Plasma-Nano Technology” Prof. Hirotsuka Toyoda, Nagoya University  
“Partnerships for International Technology Transfer” Mr. Billy B Houghteling, NC State University  
“Management & Protection: The Role of University in Technology Transfer” Mr. Jinping Gong, Nanjing University  
“University Licensing & Ventures” Dr. Dennis Thomas, Duke University |  
| 2:00-3:00pm    | Universities’ Contributions to Economic Development  
Moderator: Prof. Akihiko Watanabe, Nagoya University  
“The University’s Role in Job Creation: Entrepreneurship & Regional Cluster-Based Economic Development” Mr. Thomas J. White NC State University  
“Innovation & Technology Transfer through Synchrotron Radiation Facility in the Center of Japan” Prof. Yoshikazu Takeda, Nagoya University |  
| 3:00-4:00pm    | “NC State’s Centennial Campus” Ms. Amy Lubas, NC State Centennial Campus Partnership Developer |  
| 4:15-5:30pm    | Tour of Biomanufacturing Training & Education Center with Mr. Marcelo Anderson |  
| 6:30pm         | Reception North Carolina Museum of Art |
## Wednesday

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<th>TIME</th>
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| 9:00-9:45am | Plenary Session  
Introduction: Dr. Larry A. Nielsen, Provost & Executive Vice Chancellor, NC State University  
The NC Biotechnology Center: An Economic Development Collaboration between the State, Industry, & Higher Education  
Speaker: Mr. Norris Tolson, President, North Carolina Biotechnology Center |
| 9:45-11:45am | University Strategies for Globalization  
Moderator: Dr. Larry A. Nielsen, Provost & Executive Vice Chancellor, NC State University  
Dr. Mireille Matt, Vice President, University of Strasbourg  
Prof. Michael Whitby, Pro Vice-Chancellor, University of Warwick  
Prof. Ye Quyuan, Deputy President, Shanghai Jiao Tong University |
| 11:45-12:00pm | Welcome on behalf of the State of North Carolina  
Introduction: Dr. Betsy E. Brown, NC State University  
Mrs. Mary P. Easley, First Lady of North Carolina & Executive in Residence, NC State University |
| 12:00-1:15pm | Research Festival - see below for details |
| 1:15-1:30pm | Closing Session |

### Special AC21 Events

**Sunday**

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| 2:00 – 5:00pm | AC21 Steering Committee Meeting, Hyatt Hotel, Raleigh  
(Steering Committee Representatives Only)  
Presiding: Dr. Takashi Miyata, Vice-President for International Exchange & Technology Transfer, Nagoya University & Dr. Simon Wallis, Deputy Director, AC21 Office; Graduate School of Environmental Studies, Nagoya University |
| 5:15pm | Dinner Hosted by Provost & Mrs. Larry A. Nielsen at the E. Carroll Joyner Visitor Center |

### Tuesday

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| 9:00-10:45am | Panel Discussion  
Moderator: Dr. Cheryl Brown, UNC Charlotte  
“Analysis for Strengths & Weaknesses of IT Use in Nagoya University based on EDUCAUSE Core Data Service” Dr. Iwao Ohmine,  
Dr. Shoji Kajita & Assoc. Prof. Frank Bennett, Nagoya University  
“Virtual Computing Environment” Mr. Samuel F. Averitt, NC State University  
“Introducing Identity Management in a Traditional University System” Dr. Gerhard Schneider, University of Freiburg |
| 10:45-12:45am | CIO’s Meeting |

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<th>TIME</th>
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| 2:00-5:00pm | AC21 General Assembly Meeting, NC State University McKimmon Center  
(General Assembly Representatives Only)  
Presiding: Chancellor James L. Oblinger, NC State University |
| 6:00pm | Chancellor’s Dinner at the NC State Park Alumni Center |
Festival of Research

Festival of International Collaborative Research

“Value Relevance of Minority Interest in Net Income of Consolidated Subsidiaries”
Prof. Akihiro Noguchi & Ms. Masako Futamura, Nagoya University

“Strategic Management of Fast Growing Trees Plantation in South-East Asia by Nondestructive Technology Innovation”
Mr. Yohei Kurata, Nagoya University

“Development of an International Tsunami Information Network between AC21 Related Universities Using a Real-time Multi-Language Translation System”
Prof. Masaru Miyao, Nagoya University

Festival of Student Research & Engagement

Mr. Brandon Hardee, NC State University
Mr. Tyrone James, NC Central University
Ms. Dominique Jones, NC Central University
Ms. Dralisha Wade, NC Central University
Ms. Lavette Steele Mcgill, NC Central University
Mr. Greg Moss, NC Central University

“Nagoya University Summer Intensive Program (NUSIP) for Overseas Students”
Prof. Yukio Ishida, Nagoya University

“How Chinese Students Learn to Engage in International Affairs: Model UN”
Mr. Zhang Jiachen, Nanjing University

“Carolina Navigators”
Ms. Manal Khan & Mr. Rea Grainger, UNC Chapel Hill

“The effect of milk feeding method on cross-sucking behavior in pasture-based dairy calves fed once daily”
Ms. Katherine A. Jackson, Department of Animal Science

“A Review of Coastal Development and Permitting as it Relates to the Sandy Point Development”
Ms. Teresa M. Denault, Department of Forestry and Environmental Resources

“Can Blood Lead Levels in Children be Reduced?”
Mr. Steven G. Somers, Ms. Ashley N. Myers, Ms. Erika E. Burger, Department of Statistics

“Did reductions in nitrogen oxides emissions from utilities reduce fine particulate matter levels in North Carolina?”
Ms. Kristen Gore, Mr. Marshall Gaddis and Ms. Nicole Bader, Department of Statistics

“Metallographic Analysis of Aluminum Alloy 2219 Produced By Electron Beam Freeform Fabrication”
Mr. Thomas Greenhalgh, Mr. Brad Mooring, Ms. Jessica Sievers, Mr. Jackson Thornton, Materials Science & Engineering

“Lineshape Analysis of an Atmospheric Pressure Arc for Electron Density & Electron Temperature”
Ms. Jenna R. Puckett, Materials Science and Engineering

“H-46 Rotor Freeplay”
Mr. John Wasko, Mr. Brandon Findley, Mr. Matthew Fleck, Materials Science, Mechanical & Electrical Engineering
The rapid development of science and technology in the previous century has transformed the world itself. Accordingly, the relationship between science and technology on one hand and the society on the other has changed drastically. Each one of us in the society is asked to consider how we develop science and technology for attaining lives with security, safety, comfort and excitement. We should pay due attention toward richness in mind for achieving the goal. Creation of innovation is the key for achieving it. It requests wisdom when bearing in mind the limit of resources available. Universities should provide platforms for discussion among diverse and different fields. We have to pursue collaboration between universities as centers of excellence and industries as partners for shaping innovation. We have to form consortia between universities and industries for paving a way forward. Creative science and technology together with interdisciplinary cooperation of wide range of academic fields of humanities and social sciences would be vital. Moreover, human resources vested with sense of innovation are also crucial. Ability of overviewing and synthesizing knowledge in different fields should be fostered. Some efforts by Nagoya University for addressing these tasks are presented. These would include examples of collaboration between medical science and engineering, integration of humanities and sciences, international technology transfer, and a new model of education through problem-based learning, etc. It would highlight the significance of basic research at universities, education for creation of innovation at universities, and fostering long-lasting relationship between universities and industries. 

Monday 28 July
9.00am - 9.45am
Opening Session
Welcomes were given by Dr. James L. Oblinger, Chancellor, NC State University
Dr. Shin-ichi Hirano, President, Nagoya University
Mr. Hideo Tamai, Deputy Minister, Ministry of Education, Culture, Sports, Science & Technology
Dr. Betsy E. Brown, AC21 International Forum Coordinator

9.45am-10:45am
Developing Talent for the Innovation Society: University Student Exchanges
Mr. Thomas A. Farrell, Deputy Assistant Secretary for Academic Programs, Bureau of Educational & Cultural Affairs, U.S. Department of State

11.00-12.15pm
Presidents’ Panel Discussion: University-Industry Partnerships
Prof. Kua Wongboonsin, Vice President, Chulalongkorn University
Mr. Eberhard Alles, Chancellor, Chemnitz University of Technology
Dr. Shin-ichi Hirano, President, Nagoya University

The problems emerged in the previous century remain in their excessive forms in the 21st century. We are increasingly aware of the global challenges that face us all. These range from protecting the environment, bridging widening gap in society, to feeding an expanding population.

Tuesday 29 July
Theme I
9:00am - 10:15am
New Models for International Study & Exchange
'The Asia-Oceania Transect' A collaborative initiative for the environmental education of university students organized by university museums
Prof. Mamoru Adachi
A consortium of university museums in the Asia-Oceania region proposes an initiative for university students to improve their appreciation of the area's

**Some Session Summaries Not Available**

The AC21 General Secretariat, AC21 is made of 18 universities, and staff and advisors to the consortium. AC21 is made of 18 universities, and members include the University of Sydney (Australia), the University of Warwick (UK), North Carolina State University (U.S), Chulalongkorn University (Thailand), and Shanghai Jiao Tong University (China), among others. Because of the location of the General Secretariat, AC21 is also known as the Asian university oriented consortium, which adds uniqueness to the consortium. For the five past years, AC21 and the General Secretariat have been trying to establish its basis to enable us to develop various activities which are valuable and meeting members’ needs. Though its mission has been of greater necessity in the context of globalization, the process of initiating, developing, and activating AC21 has never been a simple task. For example, how can we meet members’ expectations? How can we make members feel that they can earn benefits of AC21 and outputs of the activity? This presentation will first elaborate on several significant issues which have emerged through the process, such as organizational communication, building trust among members, and compromising various interests. Then, discuss what AC21 can do to establish a scheme which meets the various needs of the members.
Highlights of a few tools that can be used
11:45am - 12:45pm
Easing the Transition to Campus for International Students
Two Under One Roof: How One Copes with the Other
Dr. Kai Li Liu
This was to narrate how Taiwan’s Kainan University struggled to incorporate multi-national scholars into its campus and the local communities. In the program’s transition, cultural disorientation was present between both parties. Sequentially, these barriers are being eased through the continuous collaboration among all at stake.

Activities to Support International Students on Campus
Ms. Pam Cook
I will discuss the programs that NC State has to offer to assist students in their transition and then in making the most of their experience in the U.S.
1) Orientation (small groups, personal check-in, airport pickup, temporary housing, information fair, orientation day itself, and a welcome party)
2) Programs to meet Americans: International Friendship Program, Conversation Clubs, iMOM (Spouse program)
3) Programs to volunteer and get involved in the community (ISSERV and Culture Corps)
4) Ways to connect student with others on campus and share about their culture (workshops, International potlucks, International teas)

Undergraduate Research Opportunities at NC State
Ms. Sarah Cao, Ms. Judy Day, Dr. Stefan Franzen, Dr. Yuan-Shin Lee
George Barthalamus, as panel moderator, explained our approach to the session and then introduced the first of four speakers to describe their international programs that impact undergraduates. The Moderator asked questions and invited the audience to comment and ask questions.

3:00pm - 4:15pm
International Service Learning: A Model For Student Success In A Global Society
Dr. Emmanuel O. Oritsejafar
Faceted with the ongoing challenges of nurturing and developing future civic minded leaders, the university established the Academic Community Service-Learning Program (ACSLP) to enhance civic engagement among students. The program seeks to guide students in meaningful service learning and community service experiences.

An emerging aspect of this program is the challenge to develop and provide international education opportunities and experiences for students, faculty, and staff with the goal of internationalizing the campus and preparing students for a global society. Thus, the purpose of this presentation was to demonstrate North Carolina Central University efforts in achieving this goal.

Theme II
9:00am - 10:15am
Higher Education Leadership Challenges
Flat world and multi-dimensional cooperation: from Chinese perspective
Ms. Susan Zhang
Competition and cooperation are two most important issues for the development of higher education in a globalized world. For Chinese universities, it is an inevitable choice to develop strategic cooperative relations with international higher education organizations in competition through information technology.

University Of Strasbourg: Three Universities Merging In A New Legal Context
Dr. Mireille Matt
The presentation was articulated around three issues. In a first part we presented the very recent legal context concerning higher education and research in France. We explained how the new legal frame has influenced the decision of merging the three universities of Strasbourg and the merging process itself. A second part was devoted to explain the general objectives of the new created university. Finally, the last part focused one the process of creation of the University of Strasbourg and we provided some figures.

10:15am - 11:15am
Support for Faculty International Activity
Fostering international research collaboration: a perspective from the united kingdom
Dr. Edward Harcourt
Universities have not achieved greatness by collaborating with each other. And yet all recognize that today most research of distinction, particularly in the sciences, involves a collaboration of some depth across institutional and national boundaries.
How can administrators ensure that the full support of their universities is behind the collaborative needs and endeavors of their academic staff? This presentation drew on perspectives and experience from within the United Kingdom.

11:30am - 12:45pm
Educating Teachers: National Challenges
Leadership and Teacher Preparation for the Flat World
Ms. Alice Lentz
How does a rural furniture-manufacturing center, hit hard by global economic shifts, re-invent itself in the “flat world”? Which types of teacher-preparation are essential to prepare youth effectively? This case study presents CCC&T’s strategic plan, its emphasis on global awareness, and university/community partnerships for 21st century realities.

New Literacies and Teacher Education
Dr. John K Lee
New literacies reflect both the evolving technological forms for representing information as well as the varied cultural experiences that are inherent in global societies (New London Group, 2000). The goal of new literacies is to engage in learning using Internet and information communication technologies (e.g., podcasts, wikis, blogs, digital storytelling, cell phones, instant messaging, skype etc.). These tools are indeed changing the face of literacy as new conventions and forms for interacting and communicating using these tools emerge. This presentation will pose questions aimed at addressing current practice in teacher education regarding new literacies. Included among these questions are the following. What are the new literacies? How are teacher education programs currently addressing the new literacies? What are some best practices for incorporating new literacies in teacher education?

Mr. Matt Friedrick
I. Overview of NC in the World
a. History
i. of the Center for International Understanding
ii. of the NC in the World Project
b. Goals of the Project
i. Teacher Knowledge
ii. World Languages
iii. International Partnerships and Exchanges
iv. Connecting with Higher Education
v. Infusing International Content into Existing Programs
II. Major Initiatives and Publications
a. Programs
i. School Partnerships – pairing K–12 schools in North Carolina with schools in countries of strategic economic or educational importance to North Carolina
ii. Cultural Correspondents – pairing K–8 schools with university study abroad students
iii. Global Districts – comprehensive international education reform in school districts, taking into account local community assets and needs
b. Publications
i. The NC in the World Action Plan
ii. NC in the World Pre-service Teachers Report
1:45pm - 3:00pm
Strategies for Internationalizing the Universities
International Strategies of Ministry of Education in Japan
Mr. Naoki Himiya
This presentation was comprised of the following:
*Current situation of higher education in Japan
Number of higher education institutions and students
Evolution of enrollment rates in higher education in the last 30 years
Public expenditure on higher education as a percentage of GDP
Research potential of universities in Japan
Budget for higher education FY2007
*Internationalization of Japanese universities

Introduction of basic strategies for the reformation of economy and finance 2008
Promotion of international exchange of students
Development of international cooperation between universities
Development of infrastructure to respond to globalization
Formation of world-class centers of research and education
Multilateralism, Capacity-Building and the ‘New Sustainability’
Prof. Colin B. Grant and Mr. James MacBain
This paper proposes a holistic approach to collaboration among research-led universities where optimum engagement encompasses teaching, research and mobility. It argues that a substantive consortium is ideally placed to leverage institutional will, paving the way to shared capacity-building and a sustainability based on intellectual capital.

3:15pm - 4:30pm
Innovations in Teaching & Learning
New Developments in Teaching
Dr. Chikada Masahiro
The majority of Japanese research universities have the centers for the teaching and learning. These centers have been undertaking the management of general education, first year programs, and faculty development programs and services. This presentation examines the roles, challenges of the centers comparing with American universities.

Firstly, typologies of the centers are shown using macro–micro axis, research-service axis, analytical-developmental axis. Secondly, the new missions of the centers are proposed such as organizing regional consortium, supporting development for academic administrators. Thirdly, the activities and publications of CSHE with “the developmental approach” are illustrated. Pointing out the challenges of CSHE, a common question will be proposed how to balance service activities with promoting research quality as the service centers.

Special CIO’s Session
10:45am - 12:30pm
Universal Tipping Points for IT Revolution in Higher Educational Institution
Dr. Shoji Kajita
Effective IT use is a challenging issue for each institution, offering the possibility of revolutionary changes in the core institutional missions of education, research and administration. However, it is highly dependent not only on needs associated with the targeted mission, but also on the local culture of the individual educational institution and its surrounding environment. In this CIO meeting session, leveraging multi-cultural aspects of AC21 institutions, we would like to clarify universal tipping points for IT transformation in higher educational institutions. We hope that these results are a useful referent for the further development of our higher education community.

The Plenary Talk from NCSU reveals some tipping points based on US experiences for past ten years, as one of the most advanced countries in IT. Also, through a standard IT
Session Summaries

Benchmarking using EDUCAUSE Core Data Service Questionnaires, we assess the current status of each of the AC21 institutions quantitatively and qualitatively, comparing it to US institutions. Through following discussions with AC21 CIOs, we clarify the critical mass needed to reach the tipping points identified.

**Some Session Summaries Not Available**
Thomas A. Farrell
Deputy Assistant Secretary of State for Academic Programs, Bureau of Educational & Cultural Affairs

Thomas A. Farrell was named by President George W. Bush as Deputy Assistant Secretary for Academic Programs in May 2002. In this capacity, he is responsible for all academic programs sponsored by the Department of State, these include the Fulbright Program for students, teachers, scholars and mid-career professionals in the Humphrey program, Teacher exchange programs, English Language Programs, Study of the United States Programs, and programs for undergraduate students. He serves as the Department of State’s lead executive for programs and initiatives such as President Bush’s National Security Language Initiative to promote quality teaching and mastery of critical need foreign languages. He is also responsible for: international student advising and marketing of American higher education resources through Education USA’s network of offices around the world; activities that support specialized scholarly research and other education and people to people activities through the Council of American Overseas Research Centers; and Bureau activities designed to support the educational interests of the United States in international organizations and multilateral initiatives.

Mr. Farrell came to the Department of State with fourteen years of experience in the private, non-governmental arena that was concentrated on education, professional development, training, and exchange. In 1987, he joined the Institute of International Education (IIE) as Regional Director in Houston, Texas, where he led the local Council of International Visitors office, international student services, a large active volunteer corps, and worked closely with an advisory board of corporate, civic, and academic leaders in the South and South Central regions of the U.S. He was promoted to Vice President of IIE and transferred to New York in 1990, and assigned to Washington, D.C. in 1992.

At IIE he concentrated his efforts developing and expanding activities designed to build international capacity for U.S. university and professional school students, primary and secondary school teachers, international students, and U.S. and international professionals. He supervised the operation of the Institute’s U.S. regional office network in Denver, Houston, San Francisco, and Chicago and through them was involved in significant fundraising activities, advocacy efforts and corporate programs for U.S. and foreign students as well as visitors from abroad. In addition to developing new scholarship programs for U.S. undergraduate students, he was active in both foreign government and U.S. business-sponsored programs to enhance leadership development among university students from outside the U.S. and the professional development of American primary and secondary educators and administrators.

Prior to joining IIE, Mr. Farrell worked in the U.S. Department of State; he served as a U.S. Foreign Service Officer from 1978-1987 in Iran, Canada, and Washington, D.C., where he worked in the Department of State’s Operations Center, the Secretariat, and as a Special Assistant to Secretary of State, George P. Shultz. In 1976, while a graduate student at the University of Michigan, Mr. Farrell was a Fulbright Fellow to Pakistan. In addition, Mr. Farrell worked as a Peace Corps Volunteer in India.
James L. Oblinger
Chancellor, North Carolina State University

Dr. James L. Oblinger is the 13th chancellor at NC State University, North Carolina’s flagship university for science, engineering & technology. With an annual budget of more than $1 billion & a $412 million endowment, the university has more than 7,000 full-time employees & 31,000 students.

Since arriving at NC State in 1986, he has served as provost & executive vice chancellor for Academic Affairs & dean of the College of Agriculture & Life Sciences. Working to ensure that NC State has the resources that allow faculty, staff, & students to excel is a priority for Oblinger. He is the most visible representative for NC State’s Achieve! capital campaign that surpassed its goal of $1 billion in November 2006.

Currently, Chancellor Oblinger is the chair of the National Academy of Sciences Leadership Summit to Effect Change in Teaching & Learning & serves on the American Council on Education Commission on Advancement of Racial & Ethnic Equity. He is also a member of the Council on Competitiveness & a member of the C. Peter Magrath Engagement Award selection committee for the National Association of State Universities & Land-Grant Colleges. In April 2008, President George W. Bush appointed Chancellor Oblinger to serve on the J. William Fulbright Foreign Scholarship Board. In 2006, he participated in the U.S. University Presidents Summit on International Education co-hosted by Secretary of State Condoleezza Rice & Secretary of Education Margaret Spellings.

He earned a bachelor’s degree in bacteriology from DePauw University, & a M.S. & Ph.D. in Food Technology from Iowa State University. In addition, he is the co-editor of “Educating the Net Generation” with Dr. Diana G. Oblinger.

Chancellor Oblinger is married to Dr. Diana G. Oblinger. They have four sons, all of whom have attended NC State.

Shin-ichi Hirano
President, Nagoya University

Professor Shin-ichi Hirano’s academic background is in the chemical processing and characterization of ceramic powders, films and inorganic/organic hybrids as well as in-situ microstructure control of ceramics. He has won many awards in this field, including the Distinguished Life Membership Award from the American Ceramic Society in 2006. He is selected as the Einstein Chair Professor from the Chinese Academy of Science.

He has served in Nagoya University as University Senator, Director of the Research Center for Advanced Energy Conversion, Director of Center for Cooperative Research in Advanced Science and Technology and Dean of the Graduate School of Engineering before becoming the President of Nagoya University in 2004. He promotes science and technology in the academic field and contributes greatly in the development of collaboration among university, industry and government. He has been serving as committee members under the government in the fields of higher education and scientific / technological Strategy in Japan.
Eberhard Alles
Chancellor, Chemnitz University of Technology

Mr. Eberhard Alles was born in 1959 and is married with two children.

He is Chancellor, Vice President of the Chemnitz University of Technology.

Studies at the University of Saarland Saarbrücken and the University of Köln, Degree in law

Experiences as head of the human resources management division and the budget department of the Chemnitz University of Technology

President of TUCed Inc. (Technology and Consulting, Research and Education).

Projects launched under his leadership at Chemnitz University of Technology:

- Strategic Planning
- New Public Management
- Strategic Marketing
- Balanced Scorecard
- Erp-Systems
- Reorganization Of Management Processes
- International Strategy

Hideo Tamai
Deputy Minister, Ministry of Education, Culture, Sports, Science & Technology, Japan

Hideo Tamai, the Deputy Minister of Education, Culture, Sports, Science and Technology for the Government of Japan graduated from the University of Tokyo, Faculty of Law. He entered into Ministry of Education, Science, Sports and Culture (Monbusho) in 1974.

In 1990, he became the Director for Higher Education Bureau, Monbusho where he served concurrently as Director, Office for University Council. Shortly thereafter, Tamai became the Superintendent, Board of Education for “Kitakyushu-city”.

In 1994, he began to serve as the Director of the Local Facilities Aid Division for the Local Education Support Bureau in Monbusho and in 1997, Tamai was named Director, Physical Education Division, Physical Education Bureau, Monbusho.

Tamai was named Director of the Management and Coordination Division for the Minister’s Secretariat in Monbusho and in 2000, took on the role of Deputy Director-General for Elementary and Secondary Education Bureau, Monbusho.

In 2002, he became the Director-General in the Department of Private, Higher Education Bureau for the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and in 2003, began to serve as the Director-General for Policy Coordination, MEXT.

Tamai’s career led him to serve MEXT as the Director-General, Minister’s Secretariat beginning in 2005 and in 2007, he was named Deputy Minister of Education, Culture, Sports, Science and Technology for the Government of Japan where he currently serves.
Betsy E. Brown
Vice Provost for Faculty Affairs, North Carolina State University

Betsy E. Brown serves as Vice Provost for Faculty Affairs at NC State, after having served as Special Assistant to the Provost. She chaired the Working Group of Faculty Development in 2007 & is working to implement the group’s recommendations through the office for faculty development. She works with a number of campus committees & academic programs on faculty & leadership development programs. In addition, she has worked with the NC State office of international affairs on program development & coordinated an international faculty development initiative in 2008 taking faculty to Germany to pursue collaborative research & teaching opportunities with NC State’s international partners.

At NC State, she has served as a member of the UNC Tomorrow Strategy Group, the Faculty Well-Being Committee, the Task Force on Faculty Gender Diversity, the Hispanic-Latino Task Force, the Lifelong Faculty Involvement Committee, is one of the Senior Personnel on NC State’s ADVANCE grant, & works with a number of other campus groups. She is an adjunct & associate graduate faculty member in the Department of Adult & Higher Education in the College of Education, where she serves on dissertation committees & teaches “Teaching in College,” a course for graduate students from all disciplines interested in developing their knowledge & effectiveness as teachers.

Before coming to NC State, she was Associate VP for Faculty Support & International Programs for the 16-campus University of North Carolina system, where she coordinated faculty development activities with UNC campuses & established the UNC Leadership Institute, which provided leadership development opportunities for department chairs & other academic leaders. She served as Dean of the College of Arts & Sciences & in other positions at Winthrop University, where she was also a tenured faculty member in the Department of English. Her other faculty & administrative appointments have been at Queens University & Pennsylvania State University.

She is co-author with Gretchen Bataille of Faculty Career Paths: Multiple Routes to Academic Success & Satisfaction & with Christine Licata of Post-Tenure Faculty Review & Renewal: Reporting Results & Shaping Policy & author of Supporting Early Career Faculty in Effective Practices for Academic Leaders, a series of monographs published by Stylus Publishing. She received her PhD & MA in English from The Ohio State University & BS in English from Appalachian State University.

She was appointed by the Governor to the Roanoke Island Commission in 2004 & serves on the Historic Properties Commission of the Episcopal Diocese of North Carolina.

Mary P. Easley
First Lady of North Carolina & Executive in Residence, NC State University

Mary P. Easley is Executive in Residence at NCSU. Married to NC Governor Mike Easley (2001-2008), she established three main initiatives as First Lady: teacher recruitment, reduction of underage drinking, and infant immunization, especially for the newest North Carolinians with English as their second language.

Easley served as the spokesperson for the McDonald’s “Immunize for Healthy Lives” campaign and spoke to many groups about the importance of immunizing North Carolina’s children in a timely manner. She also was an active participant in The First Ladies’ Initiative to Keep Children Alcohol Free, speaking out statewide on the dangers of early alcohol use by children.

As coordinator of the Millennium Seminar Series at NC State, designed to engage, encourage and inspire NC State students throughout the academic year, she has recruited a diverse list of speakers to discuss important issues, including former Cabinet members Robert Reich and Donna Shalala, White House advisor David Gergen, television’s Charlie Rose, Senator Lindsey Graham, former United States Senator Bill Bradley, Myles Brand, president of the National Collegiate Athletic Association (NCAA), and former United States President Bill Clinton.

Mrs. Easley teaches in the Public Safety Leadership Initiative and Ad-

Mr. Hayes is active in numerous professional organizations, including the NC Partnership for Economic Development, NC Economic Developers Association (past president) & International Economic Development Council.

Mr. Hayes is a speaker on economic development issues & has addressed such organizations as the National Governor’s Association, the U.S. Economic Development Administration’s Annual Conference & others. He is frequently quoted in news & business publications, including Fox Business, The Financial Times, Business Facilities, The News & Observer, & The Durham Herald Sun.

He is involved in the following:
- UNC Board of Governors Member
- International Visitors Council
- First Flight Venture Center
- Special Advisor to the Executive Committee, NC State Economic Development Board
- Swedish-American Chamber of Commerce NC Chapter
- NC Economic Developer Association
- NC Citizens for Business & Industry
- International Economic Development Council (IEDC)
- Southern Economic Development Council (SEDC)
- International Development Research Council (IDRC)

Mr. Hayes received a BSBA, Emphasis in Marketing from East Carolina University and a MA Ed. from East Carolina University, with an Emphasis in Distributive Education.

He & his wife Jan live in Sanford, NC. They have three children & two grandchildren.
Larry A. Nielsen
Provost & Executive Vice Chancellor, North Carolina State University

Larry Nielsen has been Provost & Executive Vice Chancellor at NCSU since January 2005. Previously he was Dean of the College of Natural Resources at NC State, Director of the School of Forest Resources at The Pennsylvania State University & a faculty member & later head of the Department of Fisheries & Wildlife Sciences at Virginia Tech. As Provost, he is responsible for all academic matters at NC State.


His current scholarly interests are higher education administration & sustainable resource management. He was appointed to the National Advisory Committee for FIPSE, U.S. Department of Education, in 2008. He served on the USDA Committee of Scientists, charged with recommending new approaches to land & resource management planning in the U.S. Forest Service. He serves on the Board of Directors of the National Council for Science & the Environment, & the World Forestry Center in Portland, Oregon. As Provost, he holds directorships in various educationally related groups in the Research Triangle Park region.

He has taught 16 different courses in his career, & still teaches an honors seminar on special topics while serving as Provost. Among more than 100 publications, he has co-edited/authored three textbooks on fisheries management. He received two Certificates of Teaching Excellence & The Diggs Teaching Scholar Award from Virginia Tech. He teaches short courses annually for the U.S. Forest Service on communication skills.

He was also Kellogg National Fellow & is a Fellow of the American Institute of Fisheries Research Biologists, & Honorary Member of the American Fisheries Society. He received Penn State’s College of Agricultural Sciences Diversity Award. He is an elder in the Presbyterian Church. Larry & his wife, Sharon, have been married since 1970.

Norris Tolson
President, North Carolina Biotechnology Center

Norris Tolson
President, North Carolina Biotechnology Center

An Edgecombe County native with a distinguished career of leadership in industry & state government, E. Norris Tolson took the helm of the Biotechnology Center July 2, 2007.

Tolson has served on the Biotechnology Center’s Board of Directors since 1997, as a member of the Executive Committee since 2001 & as Vice Chair since 2005.

He was one of five co-conveners leading development of the recently completed North Carolina’s Strategic Plan for Biofuels Leadership.

Gov. Easley appointed Tolson Secretary of Revenue in January 2001. There he was responsible for administering the state’s tax laws & collecting taxes in a fair, impartial & uniform manner.

Tolson held appointments as Secretary of the North Carolina Department of Transportation & the Department of Commerce & was charged with reorganizing both departments. Tolson also served in the North Carolina House of Representatives from 1994 until 1997 & represented parts of Nash, Edgecombe, Pitt & Wilson counties.

Prior to his election to the General Assembly, Tolson worked at E.I. Dupont from 1965 until his retirement in 1993. He worked in various assignments in the company’s agricultural products & electronics business for 28 years. He was assigned both domestic & international business responsibilities & lived in Europe for several years.

In 1999, Tolson served as chair of the North Carolina Hurricane Floyd Relief Fund to help victims of Hurricane Floyd recover.

Tolson graduated from North Carolina State University with a bachelor’s degree in crop science & agribusiness in 1962. He also served in the U.S. Army Counter Intelligence Corps from 1963 to 1965.

He is a certified lay speaker in the United Methodist Church & a member of the Lions Club & the American Legion. In addition to the Biotechnology Center board, he serves on the Board of Visitors at North Carolina State University & the Alumni Association Board.

He also serves on the NCSU College of Education & Psychology Foundation & is a member of the College of Agricultural & Life Sciences Alumni Society. Prior to his Department of Revenue service, he was a member of the North Carolina Community College Board.
Kua Wongboonsin
Vice President & Professor, Chulalongkorn University
Kua Wongboonsin is the Vice President for Research Affairs and Professor in the College of Population Studies at Chulalongkorn University in Bangkok.

His field of expertise is Demographic Analysis, Population and Development. Wongboonsin received a BS in Physics from Chulalongkorn University, as well as an MA in Sociology. Later, he earned an MA as well as his PhD in Demography from The University of Pennsylvania.

Wongboonsin has a strong record of service for Chulalongkorn University where he has held numerous roles. While he currently serves as the Vice President for Research Affairs, he has also been Vice President for Administrative Affairs and Vice President for Planning and Finance.

Prior to these leadership roles, he was the Director of the Institute of Population Studies, Deputy Director, Professor of Demography, and Associate Professor, Assistant Professor, as well as a Lecturer and Research Associate.

In addition to his strong service record, Wongboonsin has made important contributions to the scholarship in his field. Important publications he has authored/co-authored include:

- Modern Population Trends and the Family: The Southeast Asian Example
- Demographic Change and the Demographic Dividend in Thailand
- The Demographic Dividend: Policy Options for Asia
- Minimizing health problems to optimize the demographic dividend: The role of point-of-care testing
- Demographic trends, health economics, and rapid response in Southeast Asia: Focus on Thailand and the point of care
- The Demographic Dividend and M-Curve Labor Force Participation in Thailand
- To Reposition Thailand via Effective Vocational Education in Response to Changing Needs in the Globalization Era
- Demographic Dividend Contributed by Demographic Change in Thailand
- A Study for Determining Health Performance Indicators of Thailand

Ye Quyuan
Deputy President, Shanghai Jiao Tong University
Ye Quyuan, born on 19, October 1947 in Taixing, Jiangsu Province, CPC member, is now Deputy President of Shanghai Jiao Tong University, Professor and supervisor of doctoral candidates. He completed his undergraduate studies in Physics Department from China University of Science and Technology in 1970, got his MA degree from Shanghai Jiao Tong University in 1983 and has been a faculty member there afterwards. He has successively been Vice-Chair, Chair of the Engineering Mechanics Department, Deputy Dean, Dean of Graduate School of SJTU, and Deputy President of SJTU. From July 1993 to December 1994, he had been a senior visiting professor at Columbia University in USA.

Professor Ye is also on the editorial board of Applied Mechanics and China University Teaching. He is the member of National Supervisory Committee for Engineering MA Programs, the council member of the standing committees of China Academic Degrees and graduate Education and China Institutions of Higher Education for Teaching and Research. He is also the member both of China Academic Development and Specialty-setting Committee and Appraisal Expert Committee of Undergraduate Education for Chinese Institutions. He is Chair of Employment Association for graduates from key universities in Shanghai, Vice Chair for Shanghai Graduate Education Association as well as Vice Chair for Shanghai Education Association.

Professor Ye has been doing research and teaching work in his professional field of Fluid Mechanics for many years, especially in the fields of water entry & exit, cavitation, vortex dynamics, computational fluid dynamics etc. He has won a number of prizes in succession for his outstanding contributions, such as the second prize of Scientific and Technical Progress Award (STPA) from the former National Education Committee, the second and third prizes of STPA from the former Chinese Ship Building Company, the first prize of STPA from Shanghai Municipal Government, the second prize of STPA from the former Ministry of Astronautics & Aeronautics, the first and third prizes of STPA from the former Chinese Astronautics Company and the third prize of Guang-Hua Science and Technology Fund. Up to now he has published over 50 scientific papers in celebrated Journals in China and abroad or in international conference proceedings.
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AC21 Steering Committee Meeting

Sunday 27 July, Hyatt Hotel, Raleigh
(For Steering Committee Representatives Only)

Co-Chairs: Dr. Takashi Miyata, Vice-President for International Exchange & Technology Transfer, Nagoya University & Dr. Simon Wallis, Deputy Director, AC21 Office; Graduate School of Environmental Studies, Nagoya University

2:00 pm Welcome & Introduction
Dr. Takashi Miyata, Vice-President for International Exchange & Technology Transfer, Nagoya University

2:05 pm Opening Address
Dr. Larry A. Nielsen, Provost, North Carolina State University

2:10 pm Annual Report from AC21 General Secretariat
Dr. Nami Iwaki, Project Coordinator, Nagoya University

2:20 pm Discussion: Position Paper
Dr. Tsutomu Nomizu, Director, AC21 General Secretariat, Nagoya University
Dr. Simon Wallis, Deputy Director, AC21 General Secretariat, Nagoya University

2:40 pm Budget Planning, Expenditure and New Membership Fee
Dr. Tsutomu Nomizu, Director, AC21 General Secretariat, Nagoya University

3:00 pm Discussion: Industrial Partners Working Group
Mr. Eberhard Alles, Chancellor, Chemnitz University of Technology

3:20 pm Break

4:00 pm Discussion: Membership Working Group
Dr. John Hearn, Deputy Vice Chancellor, The University of Sydney

4:20 pm Report of the preparation for the AC21 Student World Forum 2009
Mr. Eberhard Alles, Chancellor, Chemnitz University of Technology

4:50 pm Report of the preparation for the AC21 Fifth International Forum 2010
Dr. Ye Quyuan, Deputy President, Shanghai Jiao Tong University

5:00 pm Event Close

5:15 pm Transportation to E. Carroll Joyner Visitor Center for Dinner Hosted by Provost & Mrs. Larry A. Nielsen

8:00 pm Transportation to Hyatt Hotel after Dinner

Participants

Chemnitz University of Technology, Germany
Eberhard Alles, Chancellor
Katrin Schulz, Project Coordinator

Chulalongkorn University, Thailand
Kua Wongboonsin, Vice-President

Nagoya University, Japan
Takashi Miyata, Vice-President
Tsutomu Nomizu, Director, AC21 General Secretariat
Simon Wallis, Deputy Director, AC21 General Secretariat
Miki Horie, Deputy Director, AC21 General Secretariat
Nami Iwaki, Project Coordinator, AC21 General Secretariat
Masahiro Chikada, Academic Staff, AC21 General Secretariat
Yuriko Nishizaki, Assistant Coordinator, AC21 General Secretariat
Tomomi Furuta, Assistant Coordinator, AC21 General Secretariat

North Carolina State University, USA
Larry A. Nielsen, Provost and Executive Vice Chancellor
Betsy E. Brown, Vice Provost for Faculty Affairs
Bailian Lee, Vice Provost for International Affairs

Shanghai Jiao Tong University, P.R.China
Ye Quyuan, Deputy President
Chen Yue, Assistant Director of International Cooperation
Liu Ashaoxue, Graduate School of Education

The University of Sydney, Australia
John Hearn, Deputy Vice-Chancellor

The University of Warwick, UK
Michael Whitby, Pro Vice-Chancellor
Edward Harcourt, Head of Institutional Relations
AC21 General Assembly Meeting

Wednesday, 30 July, NC State McKimmon Center
(For General Assembly Representatives Only)

Chair: Dr. James L. Oblinger, Chancellor, AC21 President, North Carolina State University

2:00 pm Welcome Address
Dr. James L. Oblinger, Chancellor, AC21 President, NC State University

2:05 pm Report from the AC21 General Secretariat & Report of Steering Committee
Dr. Nami Iwaki, Project Coordinator, Nagoya University

2:20 pm Presentation of the Position Paper
Dr. Tsutomu Nomizu, Director, AC21 General Secretariat, Nagoya University

2:40 pm Budget Planning, Expenditure and Membership Fee
Dr. Tsutomu Nomizu, Director, AC21 General Secretariat, Nagoya University

3:00 pm Report from Industrial Partners Working Group
Mr. Eberhard Alles, Chancellor, Chemnitz University of Technology

3:20 pm Break

3:40 pm Report from Membership Working Group
Dr. John Hearn, Deputy Vice Chancellor, The University of Sydney

4:00 pm Discussion

4:20 pm Report of the preparation for the AC21 Student World Forum 2009
Mr. Eberhard Alles, Chancellor, Chemnitz University of Technology

4:40 pm Report of the preparation for the AC21 Fifth International Forum 2010
Dr. Ye Quyuan, Deputy President, Shanghai Jiao Tong University

4:55 pm Closing Address by Dr. Shin-ichi Hirano, President, Nagoya University

5:00 pm Event Close

6:00 pm Dinner hosted by Chancellor Oblinger at the NC State Park Alumni Center

Participants

Chemnitz University of Technology, Germany
Eberhard Alles, Chancellor
Katrin Schulz, Project Coordinator

Chulalongkorn University, Thailand
Kua Wongboonsin, Vice-President

Huazong University of Science and Technology, P.R.China
Li Hao, Director, International Exchange Center

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Jinping Gong, Assistant Researcher

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Bailian Li, Vice Provost for International Affairs

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Chen Yue, Assistant Director of International Cooperation

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Gerhard Schneider, Chief Information Officer

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Victoria Strudwick

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Mireille Matt, Vice President

The University of Adelaide, Australia
John Taplin, Pro Vice-Chancellor

The University of Surrey, UK
Prof. Colin B. Grant

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Office of the Chancellor
Office of the Provost
Office of Extension, Engagement & Economic Development
Office of Research & Graduate Studies
Office of International Affairs
College of Education
Friday Institute for Educational Innovation

NC State University Foundation

North Carolina Department of Commerce
Office of International Trade

Womble Carlyle Sandridge & Rice, PLLC
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