

A PRELIMINARY REPORT

ON

THE ASCE SUMMIT

ON

FUTURE OF CIVIL ENGINEERS

Held in Lansdowne Resort Hotel between 21-23 June, 2006

To JSCE President, Prof. Dr. Masanori HAMADA

By

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Tokai University, Shizuoka, Japan



ITINERARY

Date: 21-23 June, 2006

Location: Lansdowne Resort Hotel, Virginia, USA

Participants: 90 people

USA: Current and Former Presidents of ASCE, ASCE Staff, Participants from Universities, Private Companies, State and Research Institutes,

Abroad:

Japan (JSCE President, Prof. Dr. H. Hamada, Ö. Aydan, Secretary)

UK: Vice President of Institute of Civil Engineering

South Africa: President of SA Intsitute of Civil Engineering

Taiwan: Past President of Chinese Institute of Civil and Hydraulic Eng.

Mexico: President of MSCE

Canada: President-elect of Canadian Society of Civil Engeeinging

World Federation of Engineering Assocation (President, President-elect

PROGRAM

21 June 2006

Welcome reception

Welcome speeches by ASCE President Dennis Manterson, Pat. Galloway, Stephen Betchel

Seated according to groups

M. Hamada and Ö. Aydan of JSCE are seated together with participants of Table 2

Keynote Presentation by Michael Roger, Newsweek Columnist on Technological issues

22 June 2006

Opening remarks by ASCE President

Purpose of Summit by Morgan

Explanation of Rules for Breakout Discussions

Themes of the Summit

Globalization

Technology

Leadership

Specific Items of Group Breakouts:

- (1) Profession Practice;
- (2) Infra-structures;
- (3) Environment

Specific Questions:

- (1) what will the world look like in 2025
- (2) what could/should civil engineers be doing

Globalization

Keynote lecture by Ralph Peterson, Chairman of CH2Mhill on

“Globalization and Civil Engineering of 2025.

Specific points of Kenote Lecture

Communication and Information (IT, national boundaries, NGO, Geo-spatial
Technology

Population demographic change(woman, minority groups, commercilization)

Trade-democratization (democracy, supply change)

World-wide consolidation (international companies, ethics, transperancy)

Natural resources and environmental issues (energy supply, world population,
sustainability, poverty, illitracy, global security, global warming)

Group Breakouts(6 groups or tables)

Meetings and discussions on globalization

Each group discussed globalization issue by considering profession practice,
infrastructure and environment

Technology

Keynote Lecture by J. Voeller, Black & Veatehc.

“Technology and Civil Engineering of 2025: Visioning and Enabling”

Specific Points of Keynote lecture

Autnomous

Self-repairing

Energy-less

Attention-less

Mutant-ful

Omni-talking

Lingui-equal

Micro-value

Border-less

Organic

Some specific statements:

Robotics is a sub-part of the system

Non-linearity is New methods

Chaos is New Calculus

Sharing Related Technologies

Human is missing

Technology + Time

Overall report of the groups on the theme of “Globalization”

2nd Breakout Group Meeting and Discussions on Technology with the considerations of profession practice, infrastructure and environment

Keynote Lecture by Henry Hanks on Leadership and Civil Engineering of 2025

Specific Points of Keynote lecture

Leadership quality (humble, knowledgeable, respectful to others)

Civil engineering is the engineering of civil life

Attractive to young people and respected by the society

Considerate of environment, economics and politics

23 June 2006

Overall Report of the groups on the theme of “Leadership”

Meetings and discussions by each group on Aspirational Visions

Overall report of the groups on the theme of “Globalization, Technology and Leadership”

Aspirational Visions on themes of Globalization, Technology and Leadership

Closing Remarks by the conveyor

Preliminary Aspirational Views on Globalization, Technology and Leadership

Globalization

Table 1

CEs are professionals trusted by global society to bring technology and people together to deliver the dream of building a better world

Civil Engineering is recognized as an attractive prestigious and financially rewarding profession

CEs set the agenda of the future health and welfare of the world community

CEs are stewards of the environment

CEs work in multicultural environment and providing solutions to the growing needs of global society

CEs think globally and act locally

CEs are integrators of multi-disciplinary professional skills in order to create and deliver life sustaining services to the public

CEs are the professionals most-trusted by society to bring people and technology together to build a better world

Innovate, integrate, communicate, collaborate, lead

Table 2

Civil Engineering creates a sustainable global community

By being ethical, compassionate, sensitive to cultures, environment and societal needs, apolitical, diverse and influential, visionary and flexible

By knowing Body of Knowledge (BOK) (KSA: Knowledge, Skill Attitude is to enter profession), beyond the BOK (continuing professional development and lifelong learning)

By doing leading, collaborating, integrating, influencing, advocating, partnering,

communicating, teaming, managing, persuading, adapting, inspiring, developing, defining and articulating the problem

RESPECTED

Technology

Tables 3 and 4

Transform the profession to become sustainability engineers

Civil Engineering -> Sustainability Engineering

CEs will be No.1 resource for technical leadership creating cleaner, safer equitable and sustainable global civilization

CEs facilitate appropriate technology transfer that improves the quality of life while being sensitive to and respectful of diverse cultures and social needs

We aspire to create, utilize, and share appropriate technology that improves the quality of life, meets the needs of diverse populations and cultures, preserves and enhances the natural and built environments, inspires the optimism and and establishes ourselves the partner of choice and collaborative integrator for sustainable progress.

CEs as a result of our passionate commitment to public health, safety and welfare, ethics, technological knowledge and skills, environmental conscientiousness, innovative and creative outlook, lead, collaborate, and advise to contribute significantly to enhancing the quality of life and the creation of a better world, as the recognized master of steward of the natural and built environment.

Leadership

Table 5 and Table 6

Concepts

Innovative, creative, dynamic, multi-cultural, holistic, respected, honest broker, trusted, consensus builder, collaborative, cutting edge, expert, doers/closers/finishers, brand identity, visible, influential, risk takers, integrators, approachable, engaged, looking for what's best for world, counsel, voice of the built environment, building a professional,

professionals, leading, executing, leading in sustainable environment, counselor vs leader role, forefront leader vs behind the scenes leader

CEs are the people's engineer by accepting the public's trust for the care and enhancement of natural and built environments we interact and live in

CEs are the public's trusted counselor in delivering infrastructure solutions that improves lives in a sustainable manner

Harmonizing and shaping the natural and built environment to create a better world



Welcome address of ASCE President



A view of breakout and discussion session



Group report



Group-Table 2