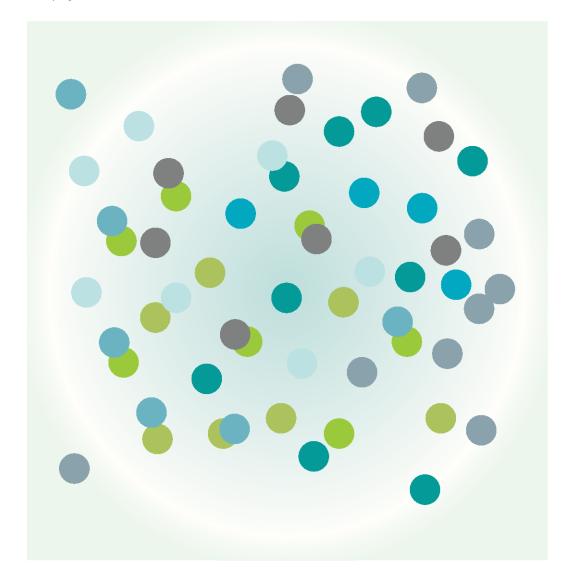
# NATIONAL ACADEMY OF ENVIRONMENTAL DESIGN

# **National Academy of Environmental Design**

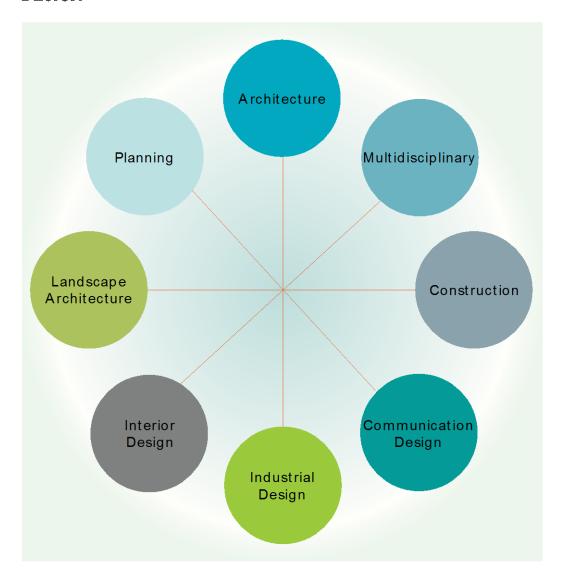
- 1. Who we are
- 2. Mission and Purpose
- 3. Governance Structure
- 4. Research

Who we are



Architecture
Construction
Communication Design
Industrial Design
Interior Design
Landscape Architecture
Planning
Other Subdisciplines
Related Disciplines

# NATIONAL ACADEMY OF ENVIRONMENTAL DESIGN



### **ARCHITECTURE**

ACSA

ΑIA

AIAS

ARCC

Architecture 2030

Beverly Willis Architecture Foundation

NAAB

NCARB

### CONSTRUCTION

ASC - Associated Schools of Construction

### COMMUNICATION DESIGN

AIGA - ["the professional association for design"]

### INDUSTRIAL DESIGN

IDSA - Industrial Designers Society of America

### INTERIOR DESIGN

**IDEC - Interior Design Educators Council** 

ASID - American Society of Interior Designers

IIDA - International Interior Design Association

### LANDSCAPE ARCHITECTURE

CELA - Council for Educators in Landscape Architecture

ASLA - American Society of Landscape Architects

### ■ RELATED AND MULTI-DISCIPLINE ORGANIZATIONS

EDRA - Environmental Design Research Association

National Building Museum

NIBS - National Institute of Building Sciences

Congress for the New Urbanism

New Building Initiative

Green Building Alliance

Urban Land Institute

Sustainable Buildings Industry Council

ASHRAE

USGBC - U.S. Green Building Council

Second Nature

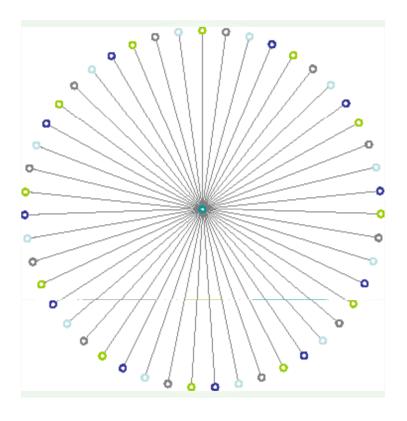
Aspen Institute

### PLANNING

Society of College and University Planners

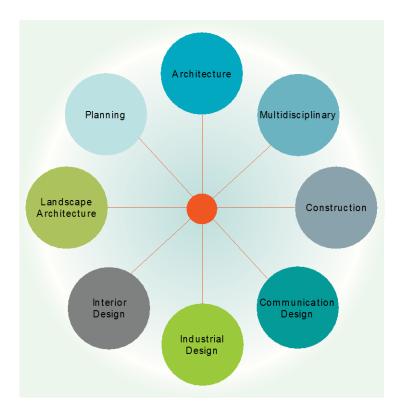
ACSP - Association of Collegiate Schools of Planning

APA - American Planning Association



### Membership

- Individuals
- Organizations (i.e., USGBC)
- Institutions (i.e., universities)



### Leadership

 Supporting organizations from across disciplines have nominated representatives for Steering Committee

**Mission and Purpose** 

### Mission of the National Academy of Environmental Design

The National Academy of Environmental Design serves the public by promoting the flourishing of individuals, communities, and the natural world through the sustainable design and stewardship of human and natural environments.

### Purpose of the National Academy of Environmental Design

Pressing and catastrophic challenges face the United States and the world, including precipitous climate change, species extinction, and a wide range of epidemics and toxins affecting human health. The factors that cause these problems are complex and often poorly understood even when recognized, but many such problems involve the communities, landscapes, buildings, and products people occupy and use.

The National Academy of Environmental Design has been created to address these problems through the diverse knowledge and practical expertise of the environmental design and related disciplines.

In pursuit of this purpose the NAED shall:

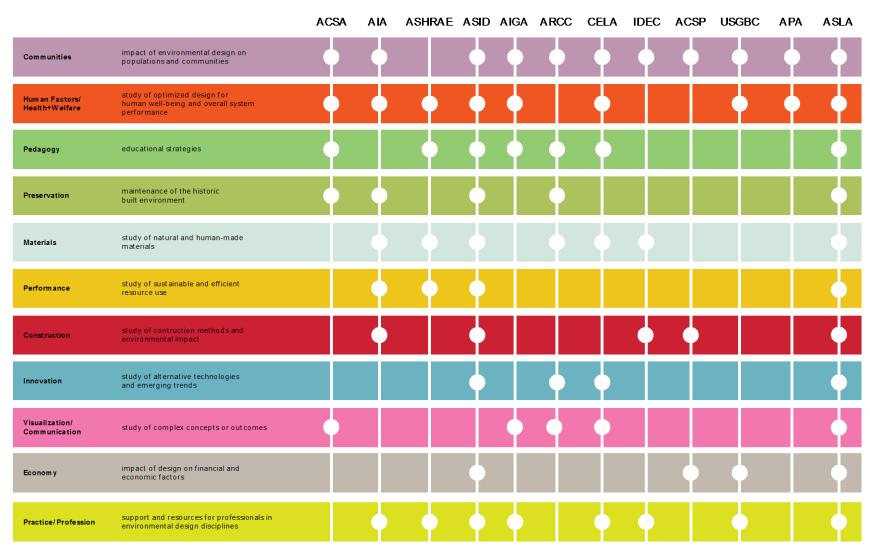
- 1. Facilitate research in cooperation with government agencies, foundations, and other institutions and organizations.
- 2. Communicate the results of ongoing research to the public and other stakeholders.
- 3. Develop and maintain a multidisciplinary knowledge base on complex interrelationship of individuals, communities, and the planet.
- 4. Foster scholarly cooperation and exchange between various elements of the environmental design discipline.

4

Research

# NATIONAL ACADEMY OF ENVIRONMENTAL DESIGN

**RESEARCH COMMITTEE** The NAED has created a preliminary "research map," a list of cross-cutting research topics drawn from the member disciplines:



### **RESEARCH COMMITTEE**

With more input and discussion, this "research map" may also be useful in developing directions for the NAED's research agenda, interdisciplinary research specialty groups, and other uses.

Communities	Impact of environmental design on populations and communities; understanding community-based processes of planning and design.
Human Factors/ Health+Welfare	Optimizing design for human well-being and overall system performance; collaboration with physicians and environmental scientists on health impacts, therapeutic environments, and environmental behavior.
Pedagogy	Educational strategies and outcomes in design and planning; extension of design education methods to public policy issues and forums.
Built Environment/ Preservation/ Conservation	Optimizing design for human well-being and overall system performance; collaboration with physicians and environmental scientists on health impacts, therapeutic environments, and environmental behavior.
Materials science applications	Systematic documentation, analysis, maintenance, and monitoring of the historic built environment; linkages between cultural and natural heritage conservation; innovations in conservation science and technology.
Built Environment Performance, Risk, Resilience and Sustainability	Study of sustainable and efficient resource use at multiple scales from buildings to sites, neighborhoods, cities, regions, and global environmental change.
Construction	Study of innovation in construction methods, technologies, and mitigation of their environmental impacts
Visualization/ Communication	Study of visual representation and processing complex concepts or outcomes
Design economy	Principles and impacts of design on financial and ec onomic indicators and processes; economic and financial analysis of design.
Practice and Profession	Research support and resources for professionals in environmental design disciplines

# BUILDING RESEARCH LINKAGES - Symposia

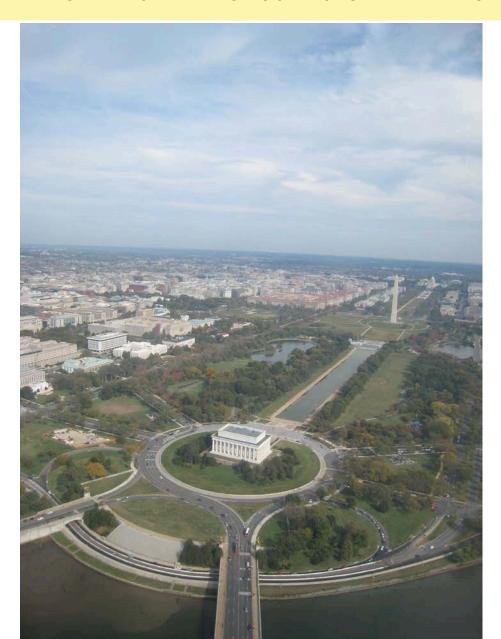
Sustainable Materials Symposium: University of Minnesota

Water Symposium: University of Florida, National Science Academy Water Science and Technology Board DESIGN for
FLOODING

ACHIECTURE, LANDSCAPE, OND ULEAN DESIGN
TO RESIGN TO STREET OF THE PROPERTY OF THE PROPER

Sustainable Sites Symposium: University of Texas at Austin, ASLA, U.S. Botanic Garden, Lady Bird Johnson Wildflower Center







THE NATIONAL ACADEMY OF ENVIRONMENTAL DESIGN ANNUAL MEETING AT THE ASLA HEADQUARTERS OCTOBER 2010

# BUILDING RESEARCH LINKAGES:

## THE NATIONAL ACADEMY OF SCIENCES + THE NATIONAL ACADEMY OF ENVIRONMENTAL DESIGN



The Disasters Roundtable of the National Academies

Invites you to participate in a workshop

### "Disaster Resilient Design"

When: Tuesday, October 26, 2010
Where: The Venable Conference Center
575 - 7<sup>th</sup> Street, NW - The Capitol Room
Washington, DC 20001

### "Disaster Resilient Design"

The Disasters Roundtable of the National Academies' National Research Council and the National Academy of Environmental Design invite you to attend a workshop. *Disaster Resilient Design*. Bringing together thought-leaders and experts in the design and disaster communities, this workshop will identify ways to integrate principles of sustainability and disaster resilience in building, site, and community planning and design. Disaster resilient design embodies a broad range of ideas and specifications that can include site planning and building.

planning and design. Disaster resilient design embodies a broad range of ideas and specifications that can include site planning and building codes, sustainability and green design principles, pre-event plans for risk reduction and mitigation, and post-event retrofit, reconstruction, and resettlement considerations. The workshop will draw upon examples from research, planning, and design studio work that addresses how building, site, and regional plans can mitigate exposure to risk and effects of disasters to:

- Identify areas of intersection between sustainability and disaster resilience
- Identify ways to integrate green design and disaster resilience principles in the United States and in international arenas
- Identify new models for disaster resilient design research and education
- Raise awareness, facilitate dialogue, and create collaboration among experts in the disasters and environmental design communities

The afternoon of the full day workshop will be spent in interactive and participatory small group activities to identify actions needed to:

- Integrate green design and disaster resilience into physical design
- Identify new models that integrate disaster resilient design research and education
- · Discuss disaster resilient design in international contexts

The workshop will be held at the Venable Conference Center:

575 - 7th Street, NW - The Capitol Room - Washington, DC 20001

Contact the Disasters Roundtable: 500 5th Street NW, Washington, DC 20001 Phone: 202-334-3812 Email: dr@nas.edu www.nas.edu/disasters

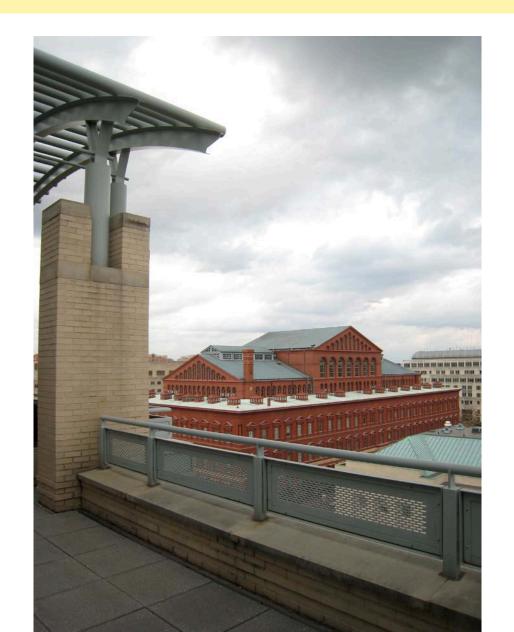












# **DISASTER RESILIENT DESIGN** (NATIONAL ACADEMIES' NATIONAL RESEARCH COUNCIL)

Bringing together thought-leaders and experts in the design and disaster communities, this workshop identified ways to integrate principles of sustainability and disaster resilience in building, site, and community planning and design.

# GREEN HEALTH; SUSTAINABLE NEIGHBORHOODS & SCHOOLS FOR

**HEALTHY KIDS** (NATIONAL CENTER CHILDHOOD OBESITY RESEARCH, NATIONAL INSTITUTE OF HEALTH, CENTER for GREEN SCHOOLS)

Workshop on the Impact of Environmental Design on Sustainable Neighborhoods and Schools for Healthy Kids.

# **DESIGNING INTELLIGENT ENVIRONMENTS: SOCIAL & ETHICAL**

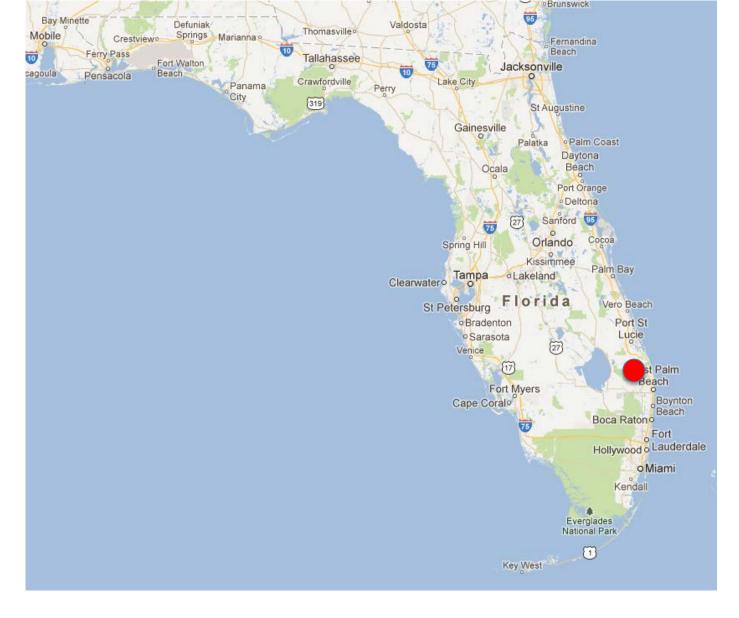
**IMPLICATIONS** (NATIONAL BUILDING MUSEUM & PERKINS + WILL) Studies the problematic of information and communication technologies (ICT) in the design and monitoring of interior environments, buildings, and landscapes.

**WATER (2013)** 

**AFFORDABLE HOUSING (2014)** 



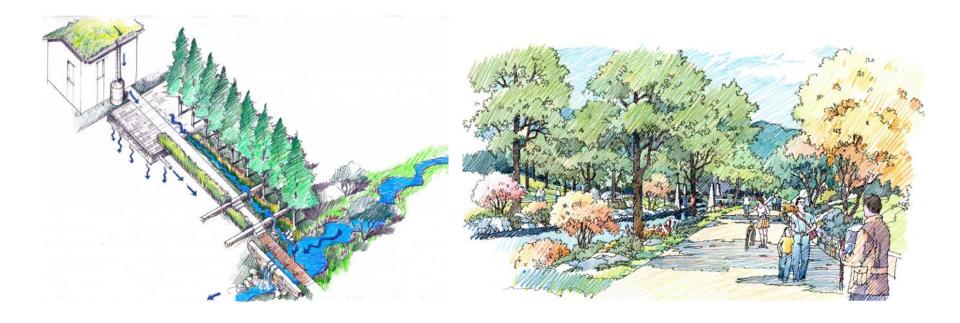
**RESEARCH TRIANGLE PARK**: SOFTWARE, PHARMACEUTICALS



**SCRIPPS FLORIDA**: BIOMEDICAL SCIENCE AND TECHNOLOGY



# NATIONAL ACADEMY OF ENVIRONMENTAL DESIGN: SUSTAINABILITY RESEARCH AND TECHNOLOGY IN VIRGINIA



An interconnected community, **Ni Village** is designed to provide an unparalleled quality of life, offer a sustainable center for commerce, enhance environmental stewardship and deliver a life-long learning experience for the people who live, recreate and work there. Located adjacent to a working quarry in Spotsylvania County, Virginia, Ni Village is a place of <u>innovative research and higher education</u>, where local school policies and programs are created and where local entrepreneurs operate their business and provide services.

# NATIONAL ACADEMY OF ENVIRONMENTAL DESIGN: SUSTAINABILITY RESEARCH AND TECHNOLOGY IN VIRGINIA



# Thank you, Questions?

NATIONAL ACADEMY OF ENVIRONMENTAL DESIGN