



GIES 2007 – Session 1

"Information & Knowledge Infrastructure for Collaboration & Innovation"

"Scientists Without Borders"

Creating an Information Commons to Drive Innovation for Global Sustainability

Ellis Rubinstein, President & CEO
The New York Academy of Sciences





The Plan for this Presentation

- What is The New York Academy of Sciences?
- Where did the idea come from to create an "innovation ecosystem" for Africa?
- What is "Scientists Without Borders" and how is it being developed?





Part One: The New York Academy of Sciences





The Unique & Dualistic Nature of the Academy

The only Academy that is not an Academy.

- It has always been a home for the elite in science...BUT
- From the beginning, all those interested in science were welcomed.

The only local Academy that became global.

- It was born as an institution OF the City of New York ...BUT
- Non-New Yorkers like President Jefferson and Europe's Charles Darwin and Louis Pasteur joined it.





SELECTED HISTORICAL EVENTS

1817: Samuel Mitchill founds NYAS

1823: First *Annals* is published

1887: Academy partners with Science Magazine

1909: Charles Darwin centennial symposium

1946: 1st conference on antibiotics

1972: Landmark Women in Science mtg.

1983: 1st conference on AIDS

2003: 1st multidisciplinary SARS mtg.

2007: Launches Scientists Without Borders





History of Prominent Members

- Jefferson
- Monroe
- Audubon
- Darwin
- Pasteur
- Dewitt Clinton
- Edison

- Bell
- Huxley
- Mead
- Skinner
- Pauling
- Einstein
- Crick & Watson





Today: The President's Council

NOBELISTS

- Axel
- Baltimore
- Berg
- Blobel
- Brenner
- Brown
- Buck
- Cech
- Doherty
- Fisher
- Goldstein
- Greengard
- Kandel
- Lederberg
- Lederman
- MacKinnon
- Nurse
- Richardson
- Rowland
- Samuelsson
- Sharp
- Varmus
- Wiesel
- Wilczek

OTHERS

- Baulieu, Past President, French Academy of Sciences

- Blavatnik, CEO, Access Industries
 Brechot, Director General, INSERM
 Conway, Chief Scientist, UK Dept. Internat'l Development
 Garnier, CEO, GlaxoSmithKline
- Gruss, President, Max-Planck
- Kurokawa, Science Advisor to Japan's Prime Minister
- Niblack, former Pres., Global Research, Pfizer
- Sigal, Chief Scientific Officer, BMS

- Ringrose, Chairman, BBSRC, UK
 Tilghman, President, Princeton
 Walsh, EVP, Research, Wyeth
 Whitehead, former co-chair, Goldman Sachs
- Winnacker, President, DFG & ERC
- Zhou, Chairman, China Ass. Sci. & Tech.





The NYAS as a Global Academy:

MEMBERSHIP FACTS

>25,000 in 140 countries 44% in NYC 33% in U.S. but outside NYC 23% outside U.S.

WEB USAGE

Unique visitors per month: ~150,000 Est'd annual unique visitors: ~1,000,000





Alliances

Academia -- Selected

Cold Spring Harbor NYU

Columbia Ohio State

Cornell Princeton

CUNY Rockefeller

Einstein Rutgers

Fox Chase Stanford

Hong Kong SUNY

Hallym Sydney

Karolinska UC, Berkeley

Miami UC, San Francisco

Mount Sinai UMDNJ

MSKCC Yale





Alliances – Selected Corporate

Major Alliances

Affymetrix

Alexandria Real Estate Equities

Boehringer-Ingelheim

Bristol-Myers Squibb

GlaxoSmithKline

Johnson & Johnson

L'Oreal

Merck

Novo Nordisk

OSI

Pfizer

Roche

Wveth

Other

IBM

Microsoft

Nature

New Scientist

Scientifiic American

Schering-Plough

Sampling of Other Supporters

AstraZeneca

Barr Pharma

BASE

Cognis

Conn. CURE

Ely Lilly

Eyetech

Genentech

Imclone

Lundbeck Novartis

Olympus

Physiome Sciences

Quintiles

Regeneron

Sonofi

John Wiley & Sons

Advent Venture P's

Atlas Venture

Baker Botts

Biogen

Boston Consulting

Burrill

CB Richard Ellis

Heller Ehrman

Intracellular Therapies

Morgan Stanley

Perseus Soros

Royalty Pharma

Simpson Thacher

Tishman Speyer

UBS

Wachtell Lipton

Warburg Pincus





Selected Global Partnerships

- Nobel Foundation
- United Nations Millennium Project
- Science Council of Japan
- China Academy of Sciences
- Deutsche Forschungsgemeinschaft
- UK Medical Research Council
- Third World Academy of Sciences
- Biovision (Lyon, France)
- BioVision Alexandria (Egypt)
- EuroBio 2006 (Paris)
- European Federation of Biotechnology
- International AIDS Vaccines Initiative
- Global Alliance for TB Drug Development





Special Strengths of the NYAS

- Distinguished members
- Global membership
- Powerful alliances
- Multidisciplinary nature
- Excellence in convening >100 events per year
- Innovative Web-based disseminator
- Neutral ground for competing institutions
- Coalition builder





NYAS Mission

The New York Academy of Sciences:

- advances scientific knowledge,
- helps resolve the major science-based global challenges, and
- increases the number of scientifically informed individuals.





Part Two: The Etiology of the Idea

Needs

- Integration
- Bridges (Coalition-Building)

Partial Answers

- Multiplicity of Actors
- Technological & Strategic Multipliers





Needs

- Science-based
- Logistical
- Political
- Capacity-building





Partial Answers

- NGOs Oxfam, Project Hope, etc.
- Foundations Gates, Rockefeller
- Corporations Merck, BMS, GSK, Novartis, Pfizer BD, TNT, Sumitomo, Pepsi
- Universities Baylor, Weill-Cornell, London School of Hygiene and Tropical Medicine
- Research Institutions Wellcome Trust, Pasteur, DFG
- Academies Third World Academy, African Academy, Chinese Academy
- Governmental Agencies JICA, UNDP, Unicef, PEPFAR, DFID
- Public/Private Partnerships IAVI, GATBDD, Malaria No More, Business Coalition
- Indigenous Institutions Government Agencies, Universities, Companies (Mining, etc.)





Multipliers

Technological

- Google Earth
- Wikipedia
- eBay
- Scientists Without Borders

Strategic

- Gates Foundation
- Clinton Global Initiative
- Touch Foundation
- Earth Institute/Millennium Promise
- Scientists Without Borders







Wikipedia



appeared on the Super Nintendo Entertainment System and has since been ported by TOSE with minor differences to the Sony PlayStation and the Nintendo Game Boy Advance. It was first released in North America as Final Fentasy III, although the original title has been restored in later releases. The game's story focuses on a group of rebels as they seek to overthrow an imperial dictatorship. Final Fantasy VI was the first game in the series to be directed by someone other than producer and series creator Hironobu Sakaguchi, the role was filled instead by Yoshinori Kitase and Hiroyuki Itō. Originally released to significant critical acclaim, it is still regarded as a landmark of the series and of the role-playing genre. It had a significantly greater number of battle customization options than its predecessors and the largest playable cast in the Final Fantasy series to date, excluding spin-off titles. It remains widely praised for its storyline, characters and non-linear style of play. (more...)

Recently featured: Hippocrates - History of Puerto Rico - Norwich City F.C.

Archive - By email - More featured articles...

Did you know...

From Wikipedia's newest articles:

- ...that the anticancer agent Salinosporamide A (skeletal formula pictured), which recently entered clinical trials, is produced by marine sediment-dwelling bacteria?
- ...that sports agent David Falk represented Michael Jordan for the whole of the player's career?
- ...that Joseph Bowman was the only American officer killed during George Rogers Clark's campaign to capture the Illinois Country in the American Revolutionary War?
- ...that in 1985, Texas Instruments became the first multinational to set up base in Bangalore?
- ...that E.E. Roberts' Oak Park, Illinois architecture firm rivaled the studio of fellow architect Frank Lloyd Wright?
- ...that a man was crushed to death during the construction of the Old Supreme Court Chamber in the United States Capital?
- ...that Don White was the first ever coach of the England national rugby union team?

Archive - Start a new article...

(pictwed), retains a majority in the National Assembly despite losses in the Legislative



- Topua Tamasese Tupuola Tufuga Eff is elected as the new O le Ao o le Malo (Head of
- The San Antonio Spurs defeat the Cleveland Cavaliers, four games to none, to win the 2007 National Basketball Association Finals.
- Hamas takes centrel of the Gaza Strip, causing Palestinian President Mahmoud Abbas to dissolve the current unity government and declare a state of emergency.
- . Shimon Peres is elected President of Israel after both of his opponents withdraw before the second round of

Wikinews - Recent deaths - More current events...

On this day...

June 20: World Refugee Day; Flag Day in Argentina (since 1938); West Virginia Day in the U.S. state of

- 451 The Battle of Chalons against Attila the Hun is the last major battle of the Western
- 1756 A garrison of the British army in India was imprisoned in the Black Hole of
- 1789 577 deputies of the French National Assembly took the Tennis Court Oath, starting the French Revolution.
- 1837 Queen Victoria (pictured) succeeded to the British throne.
- 1973 Snipers fired into a crowd of Peronists near the Ezeiza Airport in Buenos Aires, Argentina, killing at least 13 people and injuring 365 others.

Recent days: June 19 - June 18 - June 17

Archive - By email - More anniversaries...



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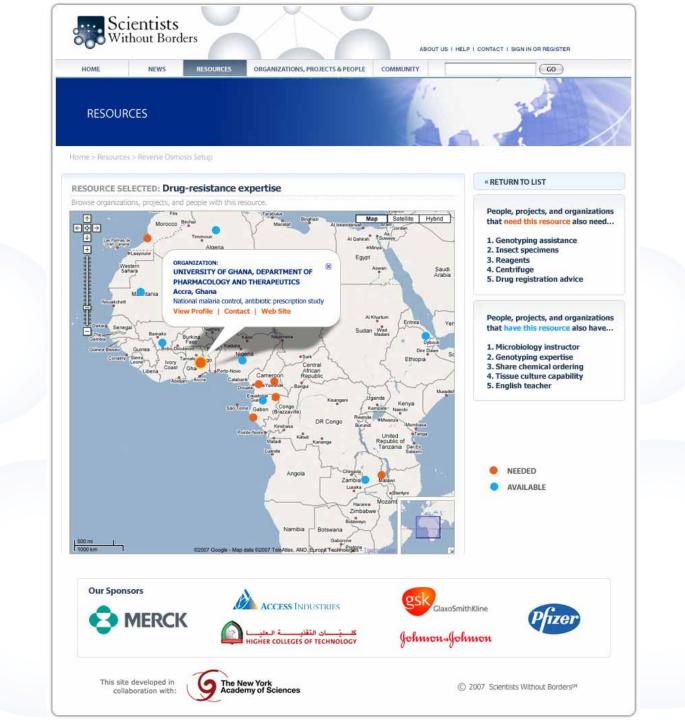


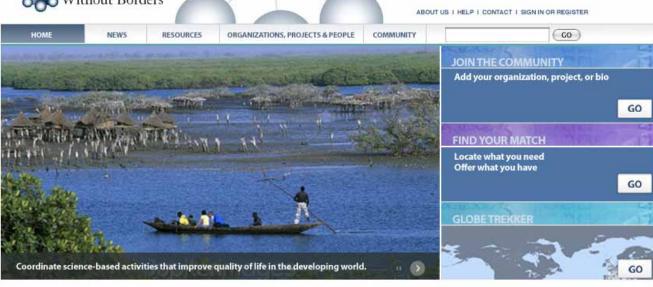
Part Three: "Scientists Without Borders"











What's Needed

- · Biochemistry instructor
- Clinical laboratory services
- · Mosquito netting
- Collaborators bird biodiversity
- · Agricultural pest control expertise
- · Share hood-certification technician
- HIV+ blood samples
- Translator
- · Reverse osmosis setup
- Aquaculture pathogen expertise

Explore needed resources >

What's Available

- · Soil analysis
- Hydroelectric power expertise
- Editing services
- · Anesthesia equipment
- Taxonomy expertise
- Shared office space
- Electron microscopy
- Bicycles
- +IT support
- Fertilizer

Explore available resources >

New members of the Community

ORGANIZATION:

Medicines for Malaria Venture Geneva, Switzerland

PROJECT:

Kitui water and sanitation project Kitui District, Kenya

PERSON:

Gracian Chimwaza

Information Training and Outreach Centre for

Africa (ITOCA)

Harare, Zimbabwe

Our Sponsors























Part Four: Building the Initiative

Business Development

- Funding
- "Marketing"

Creative Development

- Content
- Phasing





Global Partnership

Medical Research Council of the United Kingdom

Deutsche Forschungsgemeinschaft

Institut Pasteur

Science Council of Japan

Chinese Academy of Science

Duke University Health System

International AIDS Vaccine Initiative

Global Alliance for TB Drug Development

National Council for Women, Egypt

Academy of Sciences for the Developing World

Earth Institute at Columbia University

African Centre for Technology Studies





Scientists Without Borders Advisory Council

Seth Berkley, President and CEO of the International AIDS Vaccine Initiative

Zhu Chen, Vice President of the Chinese Academy of Sciences

Alice Dautry, Director General of the Pasteur Institute

Victor Dzau, Chancellor for Health Affairs and President and CEO of the Duke University Health System

Maria Freire, President and CEO of the Global Alliance for TB Drug Development

Farkhonda Hassan, Secretary-General of the National Council for Women, Egypt

Mohamed H. A. Hassan, Executive Director of the Academy of Sciences for the Developing World

Kiyoshi Kurokawa, Science Advisor to the Prime Minister of Japan

Jeffrey Sachs, Special Advisor to the United Nations on the Millennium Development Goals and Director of the Earth Institute at Columbia University

Eugene Terry, Former Director General of the West Africa Rice Development Association

Judi Wakhungu, Executive Director of the African Centre for Technology Studies





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