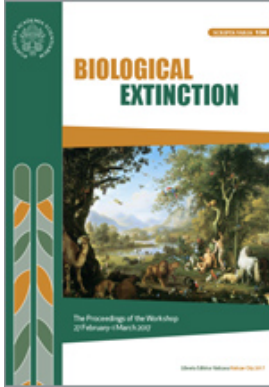




## Biological Extinction

---



Proceedings of the Joint PAS/PASS Working Group  
27 February - 1 March 2017  
Scripta Varia 134  
Vatican City, 2017  
e-pub

Word of Welcome

Chancellor Marcelo Sánchez Sorondo, PAS and PASS

Greetings from Pontifical Academy of Sciences

President Werner Arber

Greetings from Pontifical Academy of Social Sciences

President Margaret Archer

Goals and Objectives

Sir Partha Dasgupta (Cambridge University) and Peter Raven (Missouri Botanical Garden)

Extinction: What it Means to Us

Lord Martin Rees (Cambridge University)

Discussion

History of Life on Earth in Light of the Great Extinctions of the Past

Neil Shubin (University of Chicago)

Discussion

Life on Earth: Numbers of Species of Different Groups; Current Extinction Rates

Stuart Pimm (Duke University) and Peter Raven

Discussion

Why We Are in the Sixth Extinction and What It Means to Humanity

Partha Dasgupta (Cambridge University) and Paul Ehrlich (Stanford University)

Discussion

Life in the Oceans, Present and Future

Jane Lubchenco (Oregon State University)

Discussion

The Consequences of Biodiversity Loss for Human Well-being

Charles Perrings and Ann Kinzig (Arizona State University)

Discussion

Societal Collapses from the Maya to Mesopotamia and Beyond

Timothy Beach (University of Texas at Austin)

Agriculture: Past Agricultural Revolutions, Prospects for Future Sustainable Productivity (biotechnology) and Their Possible Effect on Biodiversity

Prabhu Pingali (Cornell University)

Discussion

Global Footprint

Mathis Wakernagel (Global Footprint Network)

Discussion

Population: Current State and Future Prospects

John Bongaarts (Population Council)

Discussion

Biodiversity and Global Change: From Creator to Victim to a new Revolution

Tim Lenton (University of Exeter)

Discussion

How do We Stem Biodiversity Loss? – Natural Capital Project

Gretchen Daily (Stanford) and Steve Polasky (University of Minnesota)

Discussion

How do We Stem Biodiversity Loss? – Smart Cities

John Hoal (Washington University in St. Louis)

Discussion

How do We Stem Biodiversity Loss? – Smart Villages

Sir Brian Heap (Cambridge University)

Discussion

The Drivers of Extinction: Africa

Calestous Juma (Harvard University)

Discussion

Population and Biodiversity

G rard-Fran ois Dumont (Universit  de Paris-Sorbonne)

Discussion

Summary and Conclusions

Peter Raven and Partha Dasgupta