

UCI Interdisciplinary Center for the Scientific Study of Ethics and Morality

Annual Report, 2003-4

The Center was established in 2002 by a group of scholars interested in recent scientific research on the origins and causes of morality. The Center focuses on convening faculty, researchers, graduate students, and visiting scholars to conduct studies, present lectures and publish professional papers and proceedings from public talks and organized conferences. Faculty interests are wide-ranging, and our activities this first year reflect this breadth.

Visitors.

Distinguished Visitors. Using a grant from the Center for German and European Studies, the Center sponsored an extended visit by Janusz Reykowski, from the Polish Academy of Science, who taught a course on the ethical implications of social identity and gave several public talks. Reykowski had previously visited UCI as a Chancellor's Distinguished Fellow, is a member of the Polish and European Academies of Science, and is the in-coming president of the International Society of Political Psychology.

Post-doctoral Fellows. The Center also hosted two post-doctoral fellow: Lina Kreidie (Middle Eastern politics, Islamic fundamentalism) and Andrew Manning (US foreign policy and peace politics).

Biomedical ethics.

In the area of biomedical ethics, the Center sponsored several public events in 2004. The first was a public lecture by UCI's **Francisco Ayala**, "From Utopia to Hades: Cloning, Genetic Engineering and the Biological Future of Humankind."

The second was a roundtable discussion on "The Science and Ethics of Genetic Testing," with **Philip Nickel** (UCI Philosophy and Biological Sciences), **Wayne Grody**, (UCLA Laboratory Medicine and Pediatrics), **Anne Walker** (UCI Pediatrics and Genetic Counseling), and **Kristen Monroe** (UCI Political Science and Philosophy). The conference was organized by **Mahtab Jafari**.

The Center also hosted a series of luncheon talks in bioethics. **Gregory Stock** (Director of the Program on Medicine, Technology, and Society at UCLA's School of Public Health) explored the impact of critical technologies and the shape of medical science, and Paul Silverman (UCI, Biological Sciences) spoke on genetic determinism.

Finally, the Center sponsored a conference on the science, ethics and politics of stem cell research, with talks by **Peter Bryant** (UCI Department of Developmental and Cell Biology), **Paul Silverman** (UCI, Biological Sciences), **Ronald Miller** (UCI Medical Center), **Philip Schwartz** (CHOCS), **Leonard Sender** (UCI College of Medicine), **Larry Goldstein** (UCSD), and **Lee Zwanziger** (VPI and staff member of the President's Council on Bioethics). The conference was organized by members of the Stem Cell

Committee, consisting of Mahtab Jafari, Ron Miller, Philip Nickel, Phil Schwartz (CHOC), Paul Silverman, Jerry Tobis, and Joe DiMento (Newkirk Center). Papers from the stem cell conference are being edited into a volume by Ronald Miller and Kristen Monroe. The conference was well attended – some 130 people – and we recently were asked to be interviewed for a documentary on stem cells scheduled to air on PBS later this fall. May 5th.

In an effort to encourage cooperation and collaboration, the Center co-sponsored all of these talks with various units on campus. The stem cell conference was co-sponsored by the Newkirk Center for Science and Society, the Institute for Genomics and Bioinformatics, the Schools of Biological Science, Social Science, Social Ecology, Medicine, Humanities, The School of Information and Computer Science, the Henry Samueli School of Engineering, the Graduate School of Management, Children's Hospital of Orange County, and the Dialogue Society at UCI. The Genetics Conference was co-sponsored by the UCI College of Medicine, UCI's Department of Logic and Philosophy of Science, UCI's Department of Philosophy, UCI's School of Biological Science and the Ethica Society and the Nour Foundation.

Finding the Ethical Balance. The Center also began a series of after-dinner conversations with political figures who talked about how one finds and maintains the ethical balance in political life. Our first speaker was Loretta Lynch, Commissioner and former head of the California Public Utilities Commission, who spoke about her experiences during the Clinton and David administrations. The Lynch talk was co-sponsored with the Department of Political Science and the School of Social Science. Mark Petracca is heading this series and will organize further talks and collect these talks to publish in a volume.

Additional lectures. Beyond this, the Center sponsored occasional lectures by its members or distinguished visitors. These included several public talks by the Center Director, Kristen Monroe, on her latest book, *The Hand of Compassion: Portraits of Moral Choice during the Holocaust* and a talk by Larry Cahill.

All talks are available in the Center's Vaughn Archives, and are available to the public.

Talks during 2004-5. The Center will focus public lectures on two series: (1) Finding the ethical balance, which continues the kind of talk begun by Loretta Lynch, will focus on how people wrestle with the ethical issues they confront in daily life, and will expand to include other professional arenas, such as ethics and engineering or the ethical issues in balancing family and professional obligations. (2) Regarding the "Other", which asks how ethical treatment of others is related to our perceptions of them, will begin by bringing Lloyd and Susanne Rudolph (U of Chicago) to UCI to speak about cultural, ethnic and religious differences in India. We also have invited Frans DeWaal (Emory University, Yerkes Primate Center) to speak during 2005-6 about perceptions of animals and their rights. In addition to this, Etel Solingen has agreed to give a talk during winter term (2005) on why some states pursue nuclear weapons.

Interns. As a pilot project, the Center has selected a few promising students from nearby high schools to afford them the opportunity of working with a university faculty member. This opportunity will both increase the students' sensitivity to ethical issues and allow the student to become engaged in scholarly research. During the 2003-4 year, interns were Kristin Fyfe, Michael Hong, Andre Maranhao, Brian Song, and Clay Sterns. The Center now has taken initial steps to formalize the intern program begun informally last year with a local high school. Through the more formal intern program, we will pair Center faculty with UCI students interested in working closely with a faculty member on a research project. Ron Koons has volunteered to supervise interns with interests in medical science and Kristen Monroe will supervise those interested in social science. Other volunteers are welcomed to join us.

Friends of the Center. A major goal of the Center is to reach out to the local community, drawing together UCI faculty and community members interested in discussing ethical issues. The Friends of the Center is dedicated to furthering this goal. Co-Chaired by Frank Lynch and Bettye Vaughn, the Friends of the Center have played an important part in the Center's attempts to reach out to the local community. Special thanks go to Frank Lynch and Bettye Vaughn. Through generous financial gifts from Bettye Vaughn, the Center has documented all of its initial activities so talks and public addresses are available to the public through The Vaughn Archives. Frank Lynch has made a generous contribution to the Center so we can continue our activities next year. This is not the first time Frank has shared generously with the Center and our thanks to Frank for this financial support, as well as for his continuing and valuable good advice and friendship.

Committee Work.

Bylaws Committee. Willie Schonfeld and Mark Petracca are serving on a committee to draw up bylaws for the Center. If you have suggestions, please contact them or me. I am hoping they will present a report in the Fall.

The Committee on Funding and Finance, headed by Paul Silverman, Frank Lynch and Bettye Vaughn, is meeting to develop plans for community outreach. I have been meeting with Marjorie Beale about grants. Several members have submitted – and received-- grants through the Center. These include Etel Solingen, Kamal Sadiq, and Kristen Monroe. I am happy to help others submit grants and to write supporting letters, whenever requested.

Recent Activities by Individual Center Members

Francisco J. Ayala

Honors; Professional and Academic Service Committees

University Professor. The only professor currently to hold this title at the University of California, Irvine, and the second ever to hold it.

Foreign Member, Serbian Academy of Sciences and Arts (Yugoslavia)

Gold Medal, Stazione Zoologica Naples (Italy)

Doctor Honoris Causa, Masaryk University, Brno, Czech Republic.

Member, FAO Panel of Eminent Experts on Ethics in Food and Agriculture, Food and Agriculture Organization of the United Nations (renewal of appointment).

Honorary Member, Host Committee for the 2004 Kyoto Laureate Symposium, University of San Diego.

Member, Bioethics Committee of the Autonomous Province of Trento, Italy.

President Elect (2003-04), President (2004-05), and Past President (1995-06), Sigma Xi, "The Scientific Research Society."

Member, Honorary Committee for the Symposium on Bioethics and Genetics, University of Leon (Spain), Fall 2003.

Chair, Temporary Nominating Group (TNG) for Latin America, National Academy of Sciences (NAS).

Member, Committee on Science Education (COSE) K-12, National Research Council (NRC).

Executive Committee Member, Genetic Epidemiology Research Institute (GERI), University of California, Irvine.

Distinguished Lecturer, July 28, 2004, The California State Summer School for Mathematics & Science (COSMOS) University of California, Irvine.

Member, Biological Sciences Search Committee, University of California, Merced.

Member, Curriculum Committee, Department of Ecology and Evolutionary Biology, University of California, Irvine.

Member, External Scientific Progress Advisory Panel, Minority Biomedical Research Support (MBRS) program and Support for Continued Research Excellence (SCORE) proposal from NIGMS-NIH at the University of California, Irvine.

Public Lectures

- **July 9, 2003:** Invited Lecturer, "Biology to Ethics: An Evolutionist's View of Human Nature." California State Summer School for Mathematics & Science (COSMOS) Distinguished Lecture Series, UC Davis.
- **September 7-10, 2003:** Invited Participant and Speaker, Congress of the Spanish Genetics Society, Madrid.
- **September 18, 2003:** Received Doctor Honoris Causa and presented ceremonial lecture, "The Evolutionary Roots of Ethical Behavior." Masaryk University, Brno, Czech Republic.
- **September 21-23, 2003:** Invited speaker and participant, 3rd International Symposium on "Digital Earth: Information Resources," Brno, Czech Republic. Opening Speech, "The Digital Earth Initiative"; Gala Dinner Speech, "Towards a Global Society: Ethics, Politics, Economics."

- **September 25, 2003:** Invited Plenary Lecturer, “Biology to Ethics: An Evolutionist’s View of Human Nature.” University of Geneva Medical School, Geneva, Switzerland.
- **October 14-17:** Invited Participant and Speaker, “GMOs in 2030: Reaping the Promise While Leaping the Pitfalls?” Plenary Session Respondent, “What is Our Place in the Biosphere?” Mission Inn, Riverside, CA.
- **October 15, 2003:** Invited Speaker, “On the Virtues and Pitfalls of the Molecular Clock of Evolution.” Center for the Study of Evolution and the Origin of Life, Wednesday Evening Evolution Group, UCLA.
- **October 28, 2003:** Invited Lecturer, “Is There a Molecular Clock of Evolution?” Centro Nacional de Biotecnología, Univ. Autónoma de Madrid, Spain.
- **October 29, 2003:** Invited Speaker (presenting a multi-authored book about the history of genetics in Spain), “Historical Perspective: The Origins of Genetics in Spain.” Center for General Studies, Madrid, Spain.
- **October 29, 2003:** Invited Public Lecturer, “Genetic Engineering and the Biological Future of Mankind.” CosmoCaixa Museum of Science, Madrid, Spain.
- **October 30, 2003:** Invited Principal Speaker, National Prize for Scientific Journalism, Madrid, Spain. Morning Press Conference on “Genetic Engineering”; evening Keynote Speaker, “Genoma, Medicina y Sociedad.”
- **November 4, 2003:** Received the Gold Medal of the Stazione Zoologica di Napoli (Zoological Station of Naples, Italy) and presented the Gaetano Salvatore Public Lecture, “Biology to Ethics: An Evolutionist’s View of Human Nature.”
- **November 5, 2003:** Invited Seminar Speaker, “Origin and Evolution of Introns,” Stazione Zoologica di Napoli (Zoological Station of Naples, Italy).
- **November 11-16, 2003:** Installation as President of Sigma Xi, The Scientific Research Society at the Annual Meeting in Los Angeles.
- **November 13, 2003:** Plenary Session Moderator, “Regional Efforts and Scientific Development.” Sigma Xi Forum, “Science & Engineering: Keys to International Understanding,” Los Angeles.
- **December 10-11, 2003:** Invited Participant and Speaker, “The Quantitative Environmental and Integrative Biology” Workshop, UC San Diego.
- **February 12, 2004:** Invited Public Lecturer, “Darwin’s Greatest Discovery: Design Without Designer.” Students for Science and Skepticism, UC Irvine.
- **February 19, 2004:** Invited Seminar Speaker, “Malaria’s Eve: Evolution and Recent World Expansion of *Plasmodium falciparum*, the Agent of Malignant Malaria.” Life Sciences Division, UCLA.
- **May 5, 2004:** Invited Public Lecturer, “From Utopia to Hades: Cloning, Genetic Engineering and the Biological future of Humankind.” Interdisciplinary Center for the Scientific Study of Ethics & Morality, UC Irvine.
- **May 18, 2004:** Invited Featured Speaker, “Biology to Ethics: An Evolutionist’s View of Human Nature.” Annual Initiation and Awards Banquet, San Diego Chapter of Sigma Xi, University of San Diego.
- **June 11, 2004:** Seminar Speaker, “Evolutionary Origins and Population Genetics of *Plasmodium falciparum*, the agent of malignant malaria.” Department of Ecology and Evolutionary Biology, UC Irvine.

- **June 21, 2004:** Invited Participant and Lecturer, “The Concept of Species in Hominid Evolution.” International Congress of Phylogenetics, Institute of Ecology, Xalapa, Mexico.
- **June 22, 2004:** Invited Lecturer, “Evolution of *Plasmodium falciparum*, the Agent of Malignant Malaria.” University of Veracruz, Mexico.

- **Publications**

Balakirev, E.S. and **F.J. Ayala**. 2004. Nucleotide Variation in the *tinman* and *bagpipe* Homeobox Genes of *Drosophila melanogaster*. *Genetics* 166:1845-1856.

Haag, K.L., **F.J. Ayala**, A.M. Gutierrez, and M. Rosenzvit. 2004. Livestock Trade History, Geography, and Parasite Strains: The Mitochondrial Genetic Structure of *Echinococcus granulosus* in Argentina. *J. Parasitol.* 90:234-239.

Ayala, F.J. 2004. The Evolution of Life on Earth and the Uniqueness of Humankind. In: S. Moriggi and E. Sindoni, eds., *Perché esiste qualcosa invece di nulla?* (ITACAlibri: Castel Bolognese, Italy), pp. 57-77.

Rich, S.M. and **F.J. Ayala**. 2004. Evolutionary Genetics of *Plasmodium falciparum*, the Agent of Malignant Malaria. In: K.R. Dronamraju, ed., *Infectious Disease and Host-Pathogen Evolution* (Cambridge University Press: Cambridge, U.K.), pp. 39-74.

F.J. Ayala. 2004. Un paso importante para la Medicina. *El Correo* (Madrid). February 13, 2004, p. 31.

Cela-Conde, C.J. and **F.J. Ayala**. 2004. Evolution of Morality. In: F.M. Wuketits and C. Antweiler, eds., *Handbook of Evolution, Vol. 1: The Evolution of Human Societies and Cultures* (Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim, Germany), pp. 171-189.

Rich, S.M. and **F.J. Ayala**. 2004. Evolution and population structure of parasitic protozoa: the *Plasmodium* model. In: A. Moya and E. Font, eds., *Evolution. From Molecules to Ecosystems* (Oxford University Press: Oxford, UK), pp. 82-93.

Balakirev, E.S. and **F.J. Ayala**. 2004. Pseudogenes are Not Junk DNA. In: S.P. Wasser, ed., *Evolutionary Theory and Processes: Modern Horizons, Papers in Honour of Eviatar Nevo* (Kluwer Academic Publishers: The Netherlands), pp. 177-193.

Sáenz-De-Miera, L.E. and **F.J. Ayala**. 2004. Complex evolution of orthologous and paralogous decarboxylase genes. *J. Evol. Biol.* 17:55-66.

F.J. Ayala. 2004. Human Evolution: Biology, Culture, Ethics. In: J.B. Miller, ed., *The Epic of Evolution. Science and Religion in Dialogue* (Pearson Education, Inc.: Upper Saddle River, New Jersey), pp. 166-180.

F.J. Ayala. 2004. Arguing for Evolution. In: R.W. Bybee, ed., *Evolution in Perspective. The Science Teacher's Compendium* (National Science Teachers Association Press:

Arlington, Virginia), pp. 1-4 (reprint of #712).

Rodriguez-Trelles, F., R. Tarrío, and **F.J. Ayala**. 2003. Molecular clocks: whence and whither? In: P.C.J. Donoghue and M.P. Smith, eds., *Telling the Evolutionary Time. Molecular Clocks and the Fossil Record* (CRC Press: London), pp. 5-26.

Balakirev, E.S. and **F.J. Ayala**. 2003. Molecular population genetics of the β -*Esterase* gene cluster of *Drosophila melanogaster*. *Journal of Genetics* 82:115-131.

Ayala, F.J. 2003. ¿Desde África? Una perspectiva de los elementos poblacionales en la aparición de los seres humanos modernos. In: R. Gutiérrez Lombardo, J. Martínez Contreras, and J.L. Vera Cortés, eds., *Naturaleza y Diversidad Humana. Estudios Evolucionistas* (Vicente Lombardo Toledano: Mexico), pp. 43-68.

Cela-Conde, C.J., E. Aguirre, **F.J. Ayala**, P.V. Tobias, D. Turbón, L.C. Aiello, M. Collard, M. Goodman, C.P. Groves, F. Clark Howell, J.H. Schwartz, D.S. Strait, F. Szalay, I. Tattersall, M.H. Wolpff, and B. Wood. 2003. Systematics of Humankind. Statement from Palma 2000: An International Working Group on Systematics in Human Paleontology. In: R. Gutiérrez Lombardo, J. Martínez Contreras, and J.L. Vera Cortés, eds., *Naturaleza y Diversidad Humana. Estudios Evolucionistas* (Vicente Lombardo Toledano: Mexico), pp. 1-6.

Rodríguez-Trelles, F., R. Tarrío, and **F.J. Ayala**. 2003. Evolution of cis-regulatory regions versus codifying regions. *Int. J. Dev. Biol.* 47:665-673.

Ayala, F.J. 2003. Prólogo. In: L. Castro Nogueira, C. López-Fanjul de Argüelles, and M. Ángel Toro Ibáñez, *A La sombra de Darwin. Las aproximaciones evolucionistas al comportamiento humano* (Siglo Veintiuno de España Editores, S.A.: Madrid) pp. vii-x.

Rich, S.M. and **F.J. Ayala**. 2003. Progress in Malaria Research: the Case for Phylogenetics. In: D.T.J. Littlewood, ed., *Advances in Parasitology. The Evolution of Parasitism a Phylogenetic Perspective*, Vol. 54 (Elsevier/Academic Press: Amsterdam), pp.255-280.

Balakirev, E.S. and **F.J. Ayala**. 2003. Nucleotide Variation of the *Est-6* Gene Region in Natural Populations of *Drosophila melanogaster*. *Genetics* 165:1901-1914.

Rodriguez-Trelles, F., R. Tarrío, and **F.J. Ayala**. 2003. Evolution of cis-regulatory regions versus codifying regions. *Int. J. Dev. Biol.* 47:665-673.

Ayala, F.J. 2003. España se desangra al dejar ir a sus jóvenes investigadores. Interview. *La Gaceta de los Negocios* (Spain), "Civilización/Ciencia." 31 October 2003, p. 61.

Rodriguez-Trelles, F., R. Tarrío, and **F.J. Ayala**. 2003. Convergent neofunctionalization by positive Darwinian selection after ancient recurrent duplications of the *xanthine dehydrogenase* gene. *Proc. Natl. Acad. Sci. U.S.A.* 100:13413-13417.

Ayala, F.J. 2003. Darwin vollendete die kopernikanische Revolution Gespräch mit dem Populationsgenetiker Francisco J. Ayala. Interview on the “Darwinian Revolution” (in German). In: C. Göldenboog, *Das Loch im Walfisch. Die Philosophie der Biologie* (Klett-Cotta: Stuttgart), pp. 187-193.

Ayala, F.J. and C.J. Cela-Conde. 2003. Cómo ha llevado la evolución hasta el ser humano. *Teleskop* ISSN/1696-5930, Vol. 1, no. 3, October-December 2003. <http://www.teleskop.es/>

Ayala, F.J. 2003. La Natura Umana. Una Prospectiva Evolutiva. (Text of a lecture given on the occasion of receiving a Doctor Honoris Causa from the University of Bologna, May 21, 2001.) Posted on the Anthropos website <http://www.antrocom.it/Subjects-index-req-viewpage-pageid-59.html>, August 21, 2003.

Pinar, S. and **F.J. Ayala.** 2003. Antonio de Zulueta y los orígenes de la Genética en España. In: M. Candela, ed., *Los orígenes de la genética en España* (Sociedad Estatal de Conmemoraciones Culturales: Madrid), pp. 165-201.

Balakirev, E.S., V. R. Chechetkin, V.V. Lobzin, and **F.J. Ayala.** 2003. DNA Polymorphism in the β -Esterase Gene Cluster of *Drosophila melanogaster*. *Genetics* 164:533-544.

Balakirev, E.S. and **F.J. Ayala.** 2003. Pseudogenes: Are They “Junk” or Functional DNA? *Annu. Rev. Genet.* 37:123-151.

M.J. Benton and **F.J. Ayala.** 2003. Dating the Tree of Life. *Science* 300:1698-1700.

C.J. Cela-Conde and **F.J. Ayala.** 2003. Genera of the human lineage. *Proc. Natl. Acad. Sci. U.S.A.* 100:7684-7689.

Tarrio, R., F. Rodriguez-Trelles, and **F. J. Ayala.** 2003. A new *Drosophila* spliceosomal intron position is common in plants. *Proc. Natl. Acad. Sci. U.S.A.* 100:6580-6583.

Ayala, F.J. 2003. Doing without Adam and Eve: Sociobiology and Original Sin. Book Review: *Theology and the Sciences*, by P.A. Williams. *The Quarterly Review of Biology* 78:210-211.

Ayala, F.J. 2003. Darwin y el Adn. *ABC Cultural* (Madrid, Spain), 25 April 2003, p. 53.

Ayala, F.J. 2003. Evolution, Biological. In: *Encyclopedia of Science and Religion*. Macmillan Reference USA, pp. 291-298.

Ayala, F.J. 2003. Intelligent Design: The Original Version. *Theology and Science* 1:9-32.

Cela Conde, C.J. and **F.J. Ayala**. 2003. *Senderos de la Evolución Humana (Trails of Human Evolution)*. Alianza Editorial: Madrid, Spain. 631 pp. Second Printing.

Sáez, A.G., A. Tatarenkov, E. Barrio, N.H. Becerra, and **F.J. Ayala**. 2003. Patterns of DNA sequence polymorphism at *Sod* vicinities in *Drosophila melanogaster*: Unraveling the footprint of a recent selective sweep. *Proc. Natl. Acad. Sci. U.S.A.* 100:1793-1798.

Larry Cahill's work was featured on the PBS Show, *Frontiers in Science*, hosted by Alan Alda.

Benjamin Colby has two recent papers: "Toward a Theory of Culture and Adaptive Potential" first published by the electronic journal *Mathematical Anthropology and Culture Theory* and the UCLA Center for Human Complex Systems and posted at the eScholarship Repository, University of California. Colby is expanding these ideas into a book manuscript on political culture. The first paper is a theory of cultural well-being and pathology which includes measures of adaptive potential (which, in turn, includes measures most conducive for altruism). The second paper "The Influence of Adaptive Potential" is a statistical test of the theory showing that measures of affiliation and pro-social autonomy (as well as other components of the adaptive potential measure) predict physical and mental health.

Etel Solingen was awarded a grant by the Japan Foundation Center for Global Partnership for a project comparing East Asia and Middle East trajectories in nuclear policy. The University of California's Pacific Rim program awarded her a grant for research on nuclear developments in Northeast Asia. Both projects were directly sponsored by UCI's Interdisciplinary Center for the Scientific Study of Ethics and Morality. The Center will also be sponsoring a lecture on this topic by Professor Solingen during the Winter quarter 2005.

Professor Solingen was Vice-president of the International Studies Association (2003-2004), the most respected and widely known scholarly association in this field. She has recently lectured at a conference on *Visions of International Governance* organized by Beijing's Foreign Affairs University (associated with China's Foreign Ministry), and at a joint Harvard University-Nanyang University (Singapore) conference on *Regional Institutions*.

Kristen Renwick Monroe's newest book, *The Hand of Compassion: Portraits of Moral Choice during the Holocaust*, was published in June 2004 by Princeton University Press and has been nominated for a National Book Award. Monroe also received a CWC grant from UCI to develop a course on the Politics of Difference, which will teach students how to interview elderly people. The interviews will be presented at a dinner for Center members, the public and the participants in the study.

Roxane Cohen Silver was sworn in Dec. 8, 2003 by Homeland Security Secretary Tom Ridge to a new nine-member national advisory panel on homeland security. The Academe and Policy Research Senior Advisory Committee will provide expert advice to the Homeland Security Advisory Council, which advises Ridge.

Brian Skyrms published *THE STAG HUNT* and *the EVOLUTION OF SOCIAL STRUCTURE* (Cambridge University Press) in January. The book is a kind of evolutionary social contract theory. Selected Invited Lectures:

May 2004 Social Software Conference Copenhagen

March 2004 American Philosophical Association -Pacific Meetings December 2003

American Philosophical Association

November 2003 University of Vienna Ramsey Centenary Conference

November 2003 Alasdair McIntyre Lecture Duke University

October 2003 University of Konstanz

October 2003 Washington State University

Book Published:

The Stag Hunt and the Evolution of Social Structure (Cambridge University Press: Cambridge, Mass., 2004) 149 pp.

Articles:

"Learning to Take Turns" (with Peter Vanderschraaf) *Erkenntnis* 59 (2003) 311-348.

"Time to Absorption in Discounted Reinforcement Models" (with Robin Pemantle) *Stochastic Processes and Applications* 109 (2004) 1-12.

Etel Solingen was awarded a grant by the Japan Foundation Center for Global Partnership for a project comparing East Asia and Middle East trajectories in political economy and security (2004-2005). She was also awarded a Pacific Rim research grant for research on nuclear developments in Northeast Asia (2004-2005). Professor Solingen was elected Vice-president of the International Studies Association (2003-2004), the most respected and widely known scholarly association in this field. She has recently lectured at a conference on *Visions of International Governance* organized by Beijing's Foreign Affairs University (associated with China's Foreign Ministry), and at a joint Harvard University-Nanyang University (Singapore) conference on *Regional Institutions*.

Financial Report: Attached

Budget

Appropriations and Expenditures:

Appropriations:

2003-2004 Allocation	\$ 16,500.00
2002-2003 Carryover	\$ 9,709.71
 Total Budget for 03-04	 \$ 26,209.71

Expenditures

Books	\$ 1,198.92
Entertainment	\$ 1,125.73
Supplies & Materials	\$ 1,041.32
Conferences	\$ 80.00
Travel	\$ 4,581.47
Membership/Subscription	\$ 226.00

Total Expenditures: \$ 8,253.44

Carry forward to 2004-2005 \$ 17,956.27