

TIME'S

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NEWS

A MESSAGE FROM THE PRESIDENT: TIME AND MEMORY—IN THE BULL'S-EYE

Our conference “Time and Memory” will open its doors in six months in one of the most appropriate places for such a theme: the venerable English academic institution of the University of Cambridge, a venue that featured many historical events and that is still in charge of forming the memory content of the latest generation of English scholars.

The formation of memory abilities in children may be a good starting point for a discussion of the vast, all-encompassing theme of our conference. Scanning through the 90 accepted abstracts, I noted that one of them deals exactly with this theme. More specifically, it supports the idea that, in a child, the development of the ability to extract concepts from environmental experience depends upon the possibility of talking about the past in particular forms of interpersonal communication—and therefore upon the possibility of engaging in some kind of temporal/causal reasoning, which is prerequisite for the formation of episodic memory.

Once acquired at the individual or at the collective level, episodic memory plays a crucial role in the consolidation of identities. This consolidation process, according to some conference contributions, is a dialectic process. The persistence of cultural arrangements by resisting efforts to redefine the past seems to characterize the process of the making of individual and collective identities alike. But at the same time, the plasticity of the past—the possibility of redefining the past from the standpoint of the present—seems to be a

necessary condition for individuals and societies to cope with changing environmental conditions. Was not this uncertainty about the past one of the major themes of our last conference at Gargonza three years ago?

A functioning human memory is a prerequisite for the construction of the conscious present and, more generally, of the particularly acute apprehension of time that J.T. Fraser baptised “nootemporality.” But is the temporal horizon equally large for all humans? One presenter will argue that poverty tends to reduce the perspective of the past. Poor people are inclined to a nostalgic reconstruction of the past that distorts history; this shrinking of the temporal horizon is symmetrical and twofold, and it concerns the future as well as the past. These interesting remarks remind me of several presentations made during the Paris seminar on “Time and World Globalization,” which noted the shrinking of the temporal horizon induced by the introduction of new information technologies. These technologies, despite their advantages, tend to imprison women and men in a temporal jail, the bars of which are increasingly constricting. We should be careful to avoid such impoverishment of the mind!

Several contributors and an invited speaker will present and discuss the neuronal mechanisms of memorization. They will help us to understand the diversity of memorization systems in the brain, from the purely neuronal and highly controllable mechanisms of the working memory to the more solid traces (although allowing revisions, especially in the periods of recall and re-memorization) of the episodic and semantic memories. The molecular mechanisms at the root of the latter fully justify a genetic-science approach

ANNOUNCING TIMELINE

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A MESSAGE FROM THE PRESIDENT >>
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The scientific and humanistic literature of time is immense. Professional guidelines to its content and use are much needed. Recognizing this need, the International Society for the Study of Time has had a continuing and active interest, since at least 1981, in creating an open-ended databank in which time-related literature, published in books and journals, would be classified and cross-referenced under appropriate headings and made available to the international community of scholars.

The ISST is now embarking on the work of bringing this searchable scholarly database to its website (www.studyoftime.org). It will be offered, courtesy of the Society, in return for registering the user's name, field of interest, affiliation, mailing address and e-mail address when the database is first accessed.

Originally proposed and nurtured by J. T. Fraser, this long-time ISST project, entitled TIMELINE, is

intended to be a "living" document which will include updated compilations by scholars of time. Its foundation will be the 6000+ citations very generously offered by Samuel L. Macey from his book *Time: A Bibliographic Guide* (Garland, 1991).

This is a long-term project with a completion date still to be determined. But, as the work progresses, the ISST is also interested in acquiring from its members additional bibliographic material, published since 1991, to be considered for inclusion in TIMELINE. If you have such material or would like to offer suggestions on this database, please send them to John Cordes who is working on this project on behalf of the ISST and in cooperation with its Council. He can be contacted at either jcordes@deans.umd.edu or j.w.cordes@att.net. Updates on the status of TIMELINE will be published regularly in "Time's News".

A WORD FROM THE EDITOR:

This past summer, I saw the extraordinary documentary *Rivers and Tides: Andy Goldsworthy Working with Time*. For those of you who have not had the pleasure to see it, the film focuses on the creative process of Goldsworthy, a Scottish artist who creates art from natural objects. We see Goldsworthy build a massive cone of stones, which is gradually covered and then uncovered—breath-takingly, still intact—by the strong Nova Scotian tide. We watch him craft an elaborate design of interlaced twigs, which hangs suspended from a tree until it collapses due to a gust of wind and its own weight. A ribbon comprising pinned-together leaves slowly catches the current and then undulates downstream like a languorous bright green serpent. A structure of icicles that loops around and "through" a boulder luminously reflects the rising sun. The moment, however, is short-lived. As Goldsworthy acknowledges, the very element that gives the looping structure its beauty—the sun—"kills" it.

As the above descriptions make clear, the notion of time and its fleetingness is at the heart of Goldsworthy's art. The artist indeed works with—and through and in—time. The one thing that he does not do, I would venture to say, is work *against* time. His object, seemingly, is to bring to our attention the ephemerality inherent in the beautiful. I was struck by the fact that, in some

sense, Goldsworthy's art reminds us that all human handiwork is short-lived. The Sphinx has lasted for millennia and may last for millennia more, but, despite all our efforts to restore it, it is doomed eventually to perish under the desert sands, just as the fiery autumn leaves crafted into a striking design by Goldsworthy are fated to be caught up and scattered by the autumn winds.

The photograph has served as a means for Goldsworthy to memorialize his art. He has hundreds, perhaps thousands, in file cabinets. Galleries, which cannot sell the actual "grass stalks laid over river rock," sell a photograph of the work instead. Collections of such photos are gathered in coffee-table books available at your local bookstore. But I would suggest that, barring being present as one of Goldsworthy's creations takes shape, film is the best medium for allowing us to appreciate his work. For it is film that can capture process, and it is in process that we understand how Goldsworthy works with time.

I look forward to seeing many of you at Cambridge this coming summer and being immersed in our own work with time.

—Jo Alyson Parker

Thanks to Saint Joseph's University for supporting this newsletter and to Saint Joseph's University Press for production.

Fraser Prize 2004

The J. T. Fraser Prize is awarded every three years at the Society's Conference to a book or other work that makes an outstanding contribution to the study of time. The Fraser Prize Committee is currently considering nominees for the 2004 Fraser Prize, which will be announced at the opening of the book exhibit. Primary consideration is given to books published or translated into English in the years between conferences. Nominations received after the beginning of a conference year are considered for the Prize to be awarded at the triennial conference following that year's conference. All works coming to the attention of the Society are considered, but nominations are encouraged. Those wishing to make suggestions or nominations for the 2007 Fraser Prize should send them to the Chair of the Prize Committee at: Mark H. Aultman, 150 East Wilson Bridge Road, Suite 200, Worthington, OH 43085-2328. Email: aultmanmh@cs.com

At the forthcoming conference, as at our past conferences, we shall again hold an exhibit of time-related books. Sarah Merriman Spencer will act as our book facilitator. Books related to the subject of time, from all disciplines, are invited.

Promotional material and ordering information may also be provided. Persons or publishers who wish to make books available for display should send them (one copy only) to the following address: Dr. Peter Sills (ISST), The Chapter House, The College, ELY, CB7 4DL, United Kingdom.

Questions related to the exhibit should be addressed to Sarah Merriman Spencer by e-mail at booksengland@yahoo.com.

Books for the exhibit should not arrive earlier than July 1st nor later than July 24th. No books will be returned; all books will be retained and considered for review in the "Time's Books" column of ISST's *KronoScope, Journal for the Study of Time*.

Books may also be brought to the conference in person. Please hand them to Sarah Merriman Spencer. If you do not wish them to be considered for review, you may pick them up when the exhibit closes.

We will do all we can to protect the volumes from vanishing, such as keeping the exhibit room either manned or locked. Still, the Society cannot assume financial responsibility for possible losses.

Sarah would like to prepare a collection of the synopses of the books exhibited and circulate it during the conference. To facilitate this plan, please send such synopses along with the book or e-mail them ahead to booksengland@yahoo.com. Or mail them to Sarah Merriman Spencer, 57 Peard Terrace, Stratford, CT 06614, USA.

EXHIBIT OF TIME-RELATED BOOKS

MINUTES OF THE 2003 ISST COUNCIL MEETING

AUGUST 21 AND 22, 2003
WESTPORT, CT, USA

IN ATTENDANCE: *Mr. Mark Aultman, Dr. David Burrows, Dr. J. T. Fraser, Dr. Paul Harris, Dr. Victoria Koehler-Jones, Dr. Rémy Lestienne, Dr. Jo Alyson Parker, Dr. Marlene Soulsby, Mr. Nicholas Tresilian, Dr. Thomas Weissert*

AUGUST 21

The meeting was convened at 10 a.m.

Review of Abstracts for 2004 Conference

Council-members spent the morning of August 21 reviewing the paper abstracts. Drs. Sabine Gross, Claudia Clausius, Michael Crawford, and Carmen Leccardi, who were unable to attend the meeting, had provided comments on each abstract to the rest of the Council, and these comments were taken into account as well. There were approximately twice the amount that the ISST has received for previous conferences. Council-members took into consideration the pertinence of each abstract to the conference theme and aimed for an even distribution among the disciplines.

In the afternoon, Council-members reviewed information about the conference venue, supplied by Mr. Tresilian. They considered how they might accommodate the number of accepted papers considering the physical constraints of Clare College. It was determined to reserve two meeting rooms at Clare and have a certain number of simultaneous presentations. Final determinations were made about the accepted papers.

The meeting was adjourned at 4:45 p.m.

AUGUST 22

The meeting was convened at 10 a.m.

Formation of the Local Committee

Nicholas Tresilian agreed to serve on the Local Committee, along with Rev. Peter Sills, who initially began negotiations for a Cambridge University venue. Rev. Sills would be seeing into the VAT issue.

Formation of the Program Committee

Dr. Harris agreed to construct a tentative program. Dr. Parker agreed to approach her university press about printing the conference program.

Other Conference Considerations

The ISST must inform Clare College by the end of 2003 how many people will need lodging and meals. Mr. Tresilian said that he and Rev. Sills would supply information about how people might go about making alternative lodging arrangements.

Council-members expressed some concern about a possible imbalance between the simultaneous sessions. Suggestions were made that a sign-up list be posted the night before panels and that the program be constructed so as to encourage disciplinary balance.

Dr. Weissert reported that registration for both the conference registration and the lodging requests will be online.

Council-members fixed the deadlines for notifying paper presenters and alternates, for registration, and for receiving the revised (150-word) abstract. The figure for the registration fee would be determined after the Society budget was reviewed.

It was decided to invite a neuroscientist to present a keynote address on the opening night of the conference.

Council-members discussed how the book exhibit would be handled: outsourcing or relying on a volunteer, as has been done in the past. Mr. Tresilian volunteered to see whether there would be space for an exhibit.

Treasurer's Report (*Dr. Koehler-Jones*)

There has been an increase in *KronoScope* publication costs; thus the Society needs to raise the membership rate in 2004 to \$75 to cover this increased rate. In the paper, copies of *KronoScope* have been sent to lapsed members, but the Society cannot afford to do so. *KronoScope* will be sent only to those who have paid their dues for the current year.

After looking at the budget, Council-members agreed to a conference registration fee of \$120 and graduate-student fee of \$80.

Report on *Kronoscope* (*Dr. Soulsby, Editor*)

Brill has agreed to publish two issues of *KronoScope* yearly, generally in May and October. Concern was raised about the lateness of the current issue.

It had come back from the printer late, and Brill held up distribution while some financial matters were being negotiated. Brill representative Mr. Joed Elich would be coming to Westport in October to iron out some of the current problems. Dr. Weissert agreed to send out a letter in two weeks asking whether any members had not yet received the latest issue. Dr. Soulsby reported that everything should be ready for the next issue by early September.

Council-members discussed the relationship between the Study of Time volume and *KronoScope* with regard to publishing papers from the conference. Authors at the conference can be invited to submit to *KronoScope* or the volume.

Report on Volume 11 of the Study of Time *(Dr. Harris, Co-Editor)*

Brill has expressed the intention to publish it. Dr. Michael Crawford (co-editor) has delivered the material to Brill. The co-editors hope to have it in hand at the conference. It was suggested that a flyer for the volume be included in the dues letter.

Fraser Prize Committee Report *(Mr. Aultman, Committee Chair)*

Mr. Aultman noted that he was still not happy with the current practice of asking publishers to submit candidates as the publishers are not always forthcoming. He encouraged the members of the Committee to seek out promising books. So far, there are some good candidates.

Report of the Nominations Committee (Dr. Lestienne)

The Executive Secretary and the Treasurer agreed to serve another term. Council-members expressed deep appreciation for their willingness to do so. Council-

members put forward nominations for President and Vice-President, but no determinations were made at this time.

Dr. Lestienne also solicited nominations for the Council, upon which the full ISST membership would vote in spring 2004. Mr. Aultman, Dr. Burrows, and Dr. Tresilian agreed to have their names put on the ballot. It was suggested that Dr. Lestienne write to the listserv asking for self-nominations for the Council.

During the discussion, Council-members discussed disconnecting the vice-presidential from the presidential position. [Currently, the Constitution specifies that the vice-president will succeed the president.] There will be an amendment to this effect that will be put forward before the membership during the business meeting at the next conference. Council members reviewed the tasks of the vice-president: membership recruitment and conference planning.

Concluding Remarks

Dr. Fraser noted that the mayor of Victoria, British Columbia, had invited the Society to hold its next meeting at the University of Victoria. This venue, as well as others, will be considered when the Council begins planning for the 2007 conference.

The meeting was adjourned at 1:15 p.m.

NOTES FROM THE EXECUTIVE SECRETARY

Thomas Weissert
Weissert@StudyofTime.org
www.studyoftime.org

In my ongoing effort to make this a paperless society, "I have three announcements . . ."

The planning for our upcoming conference in Cambridge is going very well. We have nearly twice the number of exciting papers this year than we've had in at past conferences, which of course will lead us into a new format of dual sessions for the first time ever. Abstracts, lodging information, and the tentative program are all posted on the website and will be updated as that information changes.

Elections are upon us once again. This year elections will be held electronically via the website. I will send out instructions on the listserv when the election begins. You will be required to log on to the website, click on the election tab that will appear on the left and follow the instructions. Bios for each council nominee will be available for your reading before you are asked to commit a ballot. If you know that you absolutely cannot use the website for the election, please contact me by email and I will send you a paper ballot.

Finally, please update your personal information on the web page; an online membership directory with search features is in the works and will soon be available to all members. We hope this feature will mark the beginning of an online collaboration service for members.

I hope to see you in Cambridge.

MEMBER NEWS *I encourage you* to send me any time-related information and announcements, including your own recent publications or presentations on time-related themes. If you would like to have your news included in the next edition of the newsletter, please send a brief statement (no more than a paragraph) to Jo Alyson Parker at the following email address: jparker@sju.edu

PETER BARNETT, Ph.D, Vice President for Information Technology at State Street Investment Manager Services has published the monograph *Artificial Time—Emergent Interdependence in a Distributed Computing System* (The Edwin Mellen Press, 2001). Dr. Barnett summarizes his argument as follows: “Synchronicity characterizes many events in human life, where an outcome is predicated upon independent actions taken at the same time. But in theoretical computer science, it is generally held that concurrent events can always be serialized so as to produce the same result. The question that motivates *Artificial Time* is philosophical: ‘Are there collections of acts which can only take place if they take place at the same time?’ In *Artificial Time* the question of synchronicity is addressed both in terms of theoretical Computer Science and as an actual experiment in distributed computing. If there were collections of necessarily concurrent actions, they would occur in a closed system of producer-consumers whose interdependence emerges as a consequence of their interaction. The emergence of interdependence implies synchronization, and synchronization in turn implies real duration. The interdependent agents of the computer experiment inhabit a temporal environment whose size and shape they modify through their interaction. It is demonstrated that collective waiting and collective looping are irreducibly distributed computations modifying both duration and sequence. The experimental findings of *Artificial Time* suggest a self-contained temporal microcosm.”

LAWRENCE FAGG, Research Professor of Nuclear Physics at the Catholic University of America, gave a lecture on his book *The Becoming of Time: Integrating Physical and Religious Time* (reprinted by Duke University Press in 2002) to the Seattle, Washington, Theosophical Society in April 2003.

MICHAEL FLAHERTY, Professor of Sociology at Eckerd College, published an article in the March 2003 issue of *Social Psychology Quarterly*: “Time Work: Customizing Temporal Experience.” Professor Flaherty was interviewed about his book *A Watched Pot: How We Experience Time* on National Public Radio’s *Talk of the Nation*, which aired on New Year’s Day 2003.

FRANÇOISE MACAR of the Centre de Recherche en Neurosciences Cognitive in Marseilles lists the following recent publications:

Macar, F., Lejeune, H., F., Bonnet, M., Ferrara, A., Pouthas, V., Vidal, F., Maquet, P., 2002. Activation of the supplementary motor area and of attentional networks during temporal processing. *Experimental Brain Research*: 142, 539-550 (DOI: 10.1007/s00221-001-0953-0).

Macar, F., Vidal, F., 2002. Time processing reflected by EEG surface Laplacians. *Experimental Brain Research*: 145, 403-406 (DOI: 10.1007/s00221-002-1103-z).

Macar, F., 2002. Expectancy, controlled attention and automatic attention in prospective temporal judgments. *Acta Psychologica*, 111 (2), 243-262 (DOI: 10.1016/S0001-6918(02)00052-5).

Macar, F., 2003. Timing in the new millennium: Where are we now? In W. H. Meck (ed.): *Functional and neural mechanisms of interval timing*, Boca Raton, FL: CRC Press, 533-540.

Macar, F., Ivry, R., 2002. Exploring the limits of the internal timer. *Cognitive Processing*, 3(1-2), 77-84.

Macar, F. Temporal processes within and beyond speech: a few comments. *Journal of Phonetics* (in press).

Macar, F., Vidal, F. The CNV peak: an index of decision making and temporal memory. *Psychophysiology* (in press).

A MESSAGE FROM THE PRESIDENT (continued from front page)

that also will be presented. The relationship of these diverse mechanisms to consciousness deserves special attention; at least one presentation will play with the conscious access to unconscious content and the unconscious access to conscious content, a tricky question indeed!

Music is one of the purest instances to reflect upon the role of memory in the formation of artistic emotions. Musical objects, one presenter will argue, emerge for our attention through a sort of concept-formation that crucially involves memory (particularly episodic memory). Another presenter will argue, however, that in the mid-twentieth century, composers often sought to minimize the impact of memory as they tried to make each composition as unlike its predecessors as possible: "But in today's post-modern climate, we have understood that virtually every musical work is inter-textually related to other works."

Our conference will also be marked by a special touch of human compassion. I am thinking particularly of those contributions that will talk about the misery of diseases affecting the special sensitivity to the dimension of time, which is unique to humanity. Such maladies are diverse and may disturb, for example, one's ability to organize the present, the timing of one's reactions, one's temporal orientation, or one's sense of autobiographical identity. They may also entail the production of false memories. There is a great deal of literature describing the experience of progressive memory loss in diseases such as Alzheimer's. One presenter will claim: "These narratives tell a time that threatens the very fabric holding together our existence. Using Fraser's model of temporal umwelts, we can see that such texts draw us into lower realms of our own consciousness where the arrow of time disintegrates, where causality gives way to unconnected succession, where we are lost if we cannot pull back and reflect." It is a descent to hell that is often even more painful for the caregivers than for the patients themselves.

So far, all of the presentations I have mentioned insist on the purely human sensitivity to the flow of time and to the specifically human capacity of memorization. As one presenter will point out, these two last properties are intimately

linked to each other: memory is crucial to evoking duration as it is experienced by consciousness. But he will show here as well the opposition between Bergson's approach to duration and that of Bachelard. Whereas for the former (as for William James) duration, flow, and processes are at the root of reality, for the latter duration is a work, an intellectual reconstruction from the given of timeless instants. Present-day human beings thus would be essentially conscious creatures who are discontinuous from nature and whose experience of time is their own creation.

But such anthropomorphic views of time and duration should not mislead us in believing that time is only an epistemological phenomenon. Such a view would be opposed by physicists, who are there to remind us that memories of diverse sorts exist in nature, quite apart from the brain of human beings. The primary memory of all memories is the cosmic microwave background that surrounds everything in the world and that is a testimony of the events that shaped our universe some 13.3 billion years ago. Many important features of the universe may be learned from a detailed analysis of this fossil light. Recent observations have shown, for instance, that the overall geometry of the universe is compatible with a flat geometry, just in between a closed spherical universe condemned to collapse in a big crunch and an ever-expanding hyperbolic universe. This and other material forms of memory testify to an objectivity of time, reminding us of G. J. Whitrow's assertion that "time is not a mysterious illusion of the intellect; it is an essential feature of the Universe"—a view that I personally share, even though I fully agree with Fraser's contention that there are in nature hierarchical degrees of sensitivity to this dimension of the world.

By surveying just a few of the contributions that will be presented, I do not intend to relativize the merits of all other contributions of such great diversity. I simply want "vous mettre l'eau à la bouche," as we say in France when we enter into a restaurant where the menu displays diverse and appetizing items. See you in Cambridge!

—Rémy Lestienne

TIME-RELATED EVENTS: PAST, PRESENT AND FUTURE...

Below are announcements of conferences and other events that might be of interest. These listings were collected from both direct notifications as well as culling the Internet. The listings are in chronological order by the date of the event. Updates and new notices will be regularly posted in the "Connections" section of the ISST website at www.studyoftime.org.

If you know of other conferences or related events, please contact John Cordes either at jcordes@deans.umd.edu or j.w.cordes@att.net. He will forward those to the appropriate ISST publications. Thank you.

SPRING 2003

The spring 2003 issue of *Daedulus: Journal of the American Academy of Arts and Sciences* was devoted to the theme "On Time."

SEPTEMBER 2002 AND APRIL 2003

Professor Carmen Leccardi reports on the foundation of a new European Institute for the social (not only academic) exploration of time. The name of the Institute (based in Luzern, in the German-speaking part of Switzerland and with a future seat in the little village of Gondo at the Italian-Swiss border) is *Zeit und Mensch* (time and human beings, both men and women). A Swiss entrepreneur, owner of an ancient (and technologically very well updated) clock and bell factory, Ivo Muri, is the founding father. His personal interest is to improve the attention to time in social life, offering courses on time-related issues and promoting research. There have been two meetings so far, the first one in September 2002, the second in April 2003. Scholars, entrepreneurs, professional men and women involved in time studies (for example, psychologists), and academics—mainly from Germany, Swiss and Italy—took part in the meetings. The group is a German-speaking one. The website for the Institute is as follows: <http://www.zeitmensch.ch>

SPRING 2004

In spring 2004, the 20-year anniversary of the Russian Interdisciplinary Seminar on Temporology will take place. The theme for spring semester 2004 is "Constructions of time in natural sciences. Selected works." The specific themes of reports include the following: the connection between space and time in complex systems on the basis of nonlinear dynamics; the role of models of physical interactions time; the role of models of time for substantiation of the fundamental equations of movement in theoretical natural sciences; the mechanics of development; the generation of matter and time in the world by algebro-geometrical structures; time as a phenomenon of universe extension; the theory of aging and the control of biological time; forecasting

the effect of macroscopic non-locality. The program for the semester, together with summaries of the reports, appears on the following website: <http://www.chronos.msu.ru>
Contact Dr. Levich at: levich@chronos.msu.ru

MARCH 26-28, 2004

"Time Politics and Time in Politics" ("Zeitpolitik—Zeit in der Politik"). March 26-28, 2004, at the Protestant Academy (Evangelische Akademie) in Tutzing, Germany (site of the 1998 meeting of the ISST). In cooperation with the German Federal Agency on Political Education and the newly founded German Association for Time. Further information about the meeting will be available in February 2004 at the following website: <http://www.ev-akademie-tutzing.de>

MAY 22-27, 2004

"Perception, Temporality and Rhythm in Music Theatre." May 22-27, 2004, the FIRT annual conference in St. Petersburg, Russia. Sponsored by the Music Theatre Working Group in the International Federation for Theatre Research (FIRT/IFTR). The Music Theatre Working Group is a very new working group within the FIRT/IFTR (International Federation for Theatre Research). It was established during the FIRT conference in Sydney in 2001. The meeting will be convened by Clemens Risi (contact at risi@zedat.fu-berlin.de) and Friedemann Kreuder, both of Freie Universitaet Berlin, Germany.

Contact information: risi@zedat.fu-berlin.de
Address: Institut fuer Theaterwissenschaft, Freie Universität Berlin Grunewaldstr. 35, D-12165 Berlin, Germany.
For further details about the FIRT conference in St. Petersburg, 2004, see the FIRT website at www.firt-iftr.org

JULY 1-3, 2004

"Organising and the Enigma of Time—EGOS (European Group for Organizational Studies)." July 1-3, 2004. The 20th EGOS Colloquium: "The Organisation as a Set of Dynamic Relationships" at Ljubljana University, Slovenia. Sub-Theme 22: "Organising and the Enigma of Time": The aim of this track is to study organizations with a focus on time. The track hopes to provide a discussion ground for empirical research and philosophical reflections.

Contact information: <http://www.egosnet.org>

JULY 6-9, 2004

"The Future of Time in Management and Organizations." July 6-9, 2004, INSEAD School of Business, Fontainebleau, France. Organized by the International Network for Time in Management and Organizations (INTiMO). Intended to spark collective inquiry into the multiplicity of temporalities that constitute managerial experience and organizational life. Participants will explore from multiple and trans-

disciplinary perspectives what time is, how it functions and how it is perceived, and the consequences of understanding time differently. There is also a pre-conference experiential workshop on July 4-5: "A Time for Time and a Time for the Future," led by Jack Petranker founder of the Center for Creative Inquiry. Attendance is limited to forty participants. More information at www.creativeinquiry.org. Also, for additional information, contact Ron Purser, San Francisco State University, rpurser@sfsu.edu.

JULY 15-18, 2004

"14th Annual International Conference: The Society for Chaos Theory in Psychology & Life Sciences." Milwaukee, WI, USA, July 15-18, 2004. The Society invites all interested scholars to submit abstracts reporting work involving chaos theory, fractals, nonlinear dynamics, complex systems, and related topics. Along with work in all areas of psychology, general biology, neuroscience, medicine, and the social sciences, recent conferences have also included presentations in anthropology, art, education, literature, mathematics, philosophy, and physics. The program will include symposia, panel discussions, a poster session, and sessions of individual papers. Advances in basic or applied research, developments in theory, reports of empirical results, and methodological papers are all welcome. Another format popular with conference attendees in recent years has been short workshops focused on sharing a particular set of techniques or methods, which might include a demonstration of relevant software (short workshops will be scheduled as part of the regular program). For more information, see: <http://www/societyforchaostheory.org/conf2004/cfp.html>

JULY 28-30, 2004

"6th International Conference on Organizational Discourse: Artefacts, Archetypes, and Architexts." July 28-July 30 at Vrije Universiteit, Amsterdam. Hosted by the Department of Culture, Organisation, and Management under the auspices of the International Centre for Research in Organisational Discourse, Strategy and Change (ICRODSC). Purpose is to develop further insights into the field of organisational discourse. It is envisaged that the conference will provide a forum in which academics with contrasting epistemological and ontological perspectives on both organization and discourse can engage in dialogue. Some possible topics include "Metaphors, Tropes, and Symbolism," "Discourse and Temporality," "Text, Talk and Technology". More information at <http://wdev.ecom.unimelb.edu.au/mgtwww/icrod/centre.html>

SEPTEMBER 23-26, 2004

"7th International Conference on Philosophy, Psychiatry and Psychology." September 23-26, 2004, in Heidelberg, Germany. The theme of the conference will be "Time, Memory and History." It is meant to combine, among others, philosophical concepts of time and temporality,

clinical and neurobiological approaches to memory and its disorders, and the historical dimensions of mental illness as well as of psychiatry as a discipline. Thus it includes the main topics of: temporality and time consciousness, implicit and autobiographical memory, and life cycle, life themes. More information at PPP2004 at <http://psychiatrie.uni-hd.de/>

OCTOBER 28, 2004

"Representations of Time In British Literature." October 28-30, 2004. South Central Modern Language Association. Location TBD. The ways in which time has been conceived and constructed and how adequately to render the human experience of time has always been a central issue for British writers. Focusing on a particular writer and/or work, submissions should explore the issue of time and how this given writer or work reflects the contemporaneous construction of time prevailing during that particular period of British literature. More information from Mark Hama, Angelo State University, Department of English, San Angelo, TX 76909 and mark.hama@angelo.edu.

NOVEMBER 5-6, 2004

"Time and Aging: Mechanisms and Meanings." European Molecular Biology Laboratory (EMBL) and The European Molecular Biology Organization (EMBO) announce their 5th inter-disciplinary conference on Science and Society. In Heidelberg, Germany from November 5-6. The programme will be made available on the websites of the sponsoring organizations by the end of January. Current contact information: Halldor Stefansson, Ph.D., European Molecular Biology Laboratory, Meyerhofstrasse 1, Heidelberg, Germany D-69117, (tel) 49-6221-387-493. More information to come at <http://www.embl-heidelberg.de/ExternalInfo/SciSoc/> and <http://www.embl-heidelberg.de/ExternalInfo/SciSoc/scisoccon04.html>.

FALL 2004-SPRING 2005

The Brown University Pembroke Center for Teaching and Research on Women will hold its 2004-05 seminar on "The Orders of Time." Professor Rey Chow, Chesler-Mallow Senior Faculty Research Fellow at the Pembroke Center, will serve as the seminar leader. From the website: "In 2004-05, the Pembroke Seminar will investigate the question of time, looking at interdisciplinary as well as discipline-specific, historical, and cross-cultural conceptions of temporality. Discussions in relation to time's classic correlate, space, taking into account how the intimacy, differentiation, and tension between time and space have been an inherent part of social and cultural ideologies with lingering effects. In addition, questions on how thinking and writing about time have informed the constructions of gender, class, culture, ethnicity, religion, and other important social divisions, and, conversely, how such social divisions themselves are implicated in time." For further information, see the following website: http://www.pembrokecenter.org/RP_PembrokeSeminar.asp

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Paul Harris is Associate Professor of English at Loyola Marymount University (Los Angeles) and co-editor of the journal *Substance*. His research interests include time, literary theory and contemporary literature and science.

Michael Crawford, Ph.D., Toronto, is Associate Professor in the Department of Biological Sciences at the University of Windsor.

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