FIRST INTERNATIONAL SYMPOSIUM ON ELECTRONIC ART

September 27 - September 30, 1988

UTRECHT - THE HAGUE - ROTTERDAM - GRONINGEN

THE NETHERLANDS

PRELIMINARY PROGRAM

SCCA Foundation for Creative Computer Applications
CKMT Center for Art, Media and Technology
of the Utrecht Academy of Arts
KLM Official Carrier

KLM Royal Dutch Airlines has been appointed Official Carrier for the Congress. KLM offices all over the world will meet your travel arrangement requirements.

For U.S. participants please call toll free 1-800-KLM-7777
Welcome

The Foundation for Creative Computer Applications (SCCA) and the Center for Art, Media & Technology of the Utrecht Academy of Arts would like to welcome participants to the First International Symposium on Electronic Art.

The Symposium brings together experts on all aspects of electronic applications to the arts in a scientific, creative and educational forum for scientists, artists and other specialists in the field of the electronic arts. The four-day event will offer lectures and hands-on learning sessions by international experts on the current state of electronic art. Papers selected by the International Program Committee will be presented on the most recent developments in computer graphics, computer animation and computer music, image processing, video art, interactive electronic art, and computer poetry and literature. Special focus will be given to the integration of electronic art forms, the aesthetics of electronic art and applications of Artificial Intelligence.

Other Symposium events will include art and industrial exhibitions, competitions and evening performances. An international organization for Electronic Creativity will be founded during the Symposium.

The Organizing Committee plans a stimulating and challenging Symposium where scientists, technologists and artists can exchange expertise and ideas and come away with a broadened sense of the potential within their fields. Your participation is an integral part of the success of the program and we look forward to meeting you in Utrecht, September 27 - 30.

Committees

Organizing Committee

Ton Hokken (chairman)
Johan den Biggelaar (chairman)
Wim van der Plas (advisor)

Program Committee

Paul Berg
Frederik van der Blij
Wim Bijleveld
Wim Crouwel
Charles A. Csuri
Herbert W. Franke
Theo Hesper
Robin G. King
John Lansdown
Thomas E. Linehan
Tod Machover
Nadia Magnenat-Thalmann
Roger E. Malina
Jean-Claude Risset
Itsuo Sakane
John Vince
Iannis Xenakis

Secretariat

SCCA/FISEA
P.O. Box 23330
3001 KJ Rotterdam
The Netherlands
Telephone (0)10 - 4 360 371
Fax: (0)10 - 4 360 346
Email UUCP: FISEA @ HKU Email AppleLink: HOL 0049

Committee of Recommendation

E. van Spiegel - Director General
Science Policy
Ministry of Education
and Sciences

A.J. van der Staay - Director, Social and
Cultural Planning
Bureau

M.W.M. Vos-van Gortel - Mayor of Utrecht

Photo page 10 - 11: Peter Voci
Photo page 6 - 14: Mike King
Acknowledgements

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Anjerfonds Utrecht
Stichting voor Publieksvoorziening over Wetenschap en Techniek (PWT)
Stichting Post Kunstkundigerwijs
Gemeente Utrecht / Provincie Utrecht
Ministry of Economic Affairs
Ministry of Welfare, Health and Culture Affairs
Computer Music Association
Eurographics
ISAST / Leonardo
Netherlands Universities Foundation for International Cooperation (NUFFIC)

Tentative time-table

Tuesday, September 27, 1988

Time
09.00 - 18.00

Workshop on Networking in the Arts
Raymond Lauzzana

Hands-on-Session on LISP
Peter Desain, Henk-Jan Honing

Hands-on-Session on Introductory Image Processing
J. MacCormick, Ad Wisman

Hands-on-Session on Advanced Image Processing
Ted Young et al.

Hands-on-Session on Interactive Composing
George Lewis, Daniel Brandt

Hands-on-Session on Interactive Media to be invited

Hands-on-Session on FM Synthesis
Ernst Bonis, D. Bristow

Hands-on-Session on Computer Poetry
Piero Olmeda

Tutorial on Development of Musical Software for Personal Computers
David Zicarelli

All Hands-on-Sessions include a tutorial on the subject given

17.30 - 20.00

Informal Get-Together and opening of the Center for Art, Media and Technology

21.00 - 22.30

Performance Program

The Thundering Scream of Seraphim's Delight
Reynold Weidenaar
The Empty Chair - A multimedia performance
George Lewis
Wednesday, September 28, 1988

Time          | Plenary session                     | Parallel session
              | Invited speakers                    | Chairman: Peter Desain
              | Opening of the Symposium            | Panel on Programming Environments
09.00 - 09.45 | Willem Dijkhuis                     | for the Arts
09.45 - 10.30 | title unknown                       | 15.30 - 16.00
              | Harold Cohen                        | Tea
10.30 - 11.00 | Coffee                               | 16.00 - 17.30
11.00 - 12.30 | Plenary session                     | Plenary session
              | Chairman: Herbert W. Franke          | Chairman: Frederik van der Blij
              | Exploring new Tools for the Artist  | Invited speaker
          | Establishing a Tonic Space with      | Computer Graphics and Animation as
          | Digital Color                        | Agents of Personal Evolution in the Arts
          | Brian Evans                          | Robin G. King
          | Fantasy Object Exploration with     | Parallel session
          | Micro-Computers                      | Chairman: Frederik van der Blij
          | Edward R. Pope                       | Interactive Art: a Renaissance?
          | Computer Dance makers                | Using Computers in an Art
          | Peggy Brightman                      | Practice: from Computer-plotted
          | Sculptor - a 3D Computer             | Drawings to Interactive
          | Sculpting System                     | Computer Art
          | Mike R. King                         | Stephen Bell
12.30 - 14.00 | Lunch                                | The Cultural Significance of
14.00 - 15.30 | Parallel session                     | Interactive Art
              | Chairman: to be invited              | Stephen P. Wilson
              | Exploring new Tools for the Artist  | Towards a new Media
          | Perspective and the Appearance       | Technology Interactive Virtual
          | of Natural Scenes                    | Environments
          | Edwin H. Blake                       | Joel A. Slayton
          | Epigenetic Painting: Software as     | Parallel session
          | Genotype, a New Dimension of Art     | Chairman: Peter Desain
          | Roman Verostko                       | Panel on Programming Environments
          | Visualisation of Sculpture           | for the Arts
          | William Latham                       | 20.00
          | The Staging of Leonardo’s Last Supper| Visit to the Omniversum in the Hague
          | Lillian F. Schwartz                  | Transportation is provided for
          | The Making of a Film with Synthetic |
Thursday, September 29, 1988

**Plenary session**
Chairman: to be invited

09.00 - 09.45  
title unknown  
Paul Lansky

09.45 - 10.30  
Aesthetic Issues in Computer Art  
Thomas E. Linchan

10.30 - 11.00  
Coffee

11.00 - 12.30  
**Parallel session**  
Chairman: John Lansdown  

**Aesthetic Issues and Computer Art**
Interfacing Traditional Art Media with Computer Imaging  
John Pearson

An Electronic Arts Landscape: a new Language  
Joan Truckenbrod

Art, Time and Computer Animation  
André Jodoin

12.30 - 14.00  
Lunch

14.00 - 15.30  
**Parallel session**  
Chairman: John Vince  

**Institutional Networking**  
Panel on Computer Graphics Education

**Parallel session**  
Chairman: C. Kandall

**Aesthetic Issues and Computer Art**
Digital Simulation and Art Objects: the Unity of Representation  
Frank Dietrich

Computational Art  
Anton Eliëns

Finding a Context for the new Technology  
Edward R. Pope

Emergent Aesthetics  
Nihai Nadin
Institutional Networking
Panel on Computer Music Education

15.30 - 16.00
Tea

16.00 - 17.30
Parallel session
Chairman: Paul Berg
New Tools for the Composer
Extended Musical Interface with the
Human Nervous System: Assessment and
Prospectus
David Rosenboom
Smalltalk-80 and Music Applications
Stephen T. Pope

Parallel session
Chairman: Thomas E. Linehan
Institutional Networking
Panel on Research in Art and Technology

18.00 - 19.00
Official Reception

20.30
Performance Program
Portable Music
Daniel Brandt
Duel
Peter Desain and Henk Jan Honing
Obeying the Laws of Physics
Daniel Scheidt
Music for Bass Clarinet and Tape
Curt Lippe
Hall of Mirrors
Robert Rowe
Cometose
Robert Mulder, Kristi Allik
Systems of Judgements
David Rosenboom

Friday, September 30, 1988

Plenary session
Chairman: to be invited
Invited speakers

09.00 - 09.45
The Electronic Bauhaus
Jürgen Claus

09.45 - 10.30
Hyper Instruments
Tod Machover

10.30 - 11.00
Coffee

Parallel session
Chairman: Roger Malina
Applying AI-Techniques to Art
Discovery through Interaction
Peter Beyls
Logic and Time-based Art Practice
Ernest Edmonds
Some Issues in the Development of
Computer Art as a Mathematical Art
Form
Richard Q. Wright

Parallel session
Chairman: Nadia Magnenat-Thalmann
Panel on Computer Animation

12.30 - 14.00
Lunch

Parallel session
Chairman: Kristi Allik
Relating Image and Sound
Visual Documentation of Structural
Information: a Tool for Composition and
Analysis in Electro-Acoustic music
Tamas Ungvary
Perceptual Correspondences of Abstract
Animation and Synthetic Sound
Adriano Abbado
The Creation Station: An Approach to a
Multimedia Workstation
Henry S. Flurry
Image Modelling of the Musical Object
Michel Naranjo
Parallel session  
Chairman: Raymond Lauzzanna

Panel on Artificial Intelligence  
in the Arts

15.30 - 16.00  
Tea

16.00 - 17.30  
Plenary session  
Chairman: to be invited

Invited speakers

Technologies and Story Writing  
John Sanborn

title unknown  
William Buxton

Saturday, October 1st, will be available for informal meetings of participants and speakers.  
If you wish to make use of this opportunity, please contact the registration desk during the Symposium.  
In the final program details about meetings already scheduled on Saturday will be published.

General Information

Location
The Symposium will be held at the 'Royal Dutch Jaarbeurs' conference center, Jaarbeursplein, Utrecht; telephone (0)30-955 911. Trains leave every half-hour from Amsterdam Airport Schiphol to Utrecht Central Station. The Jaarbeurs is located in the center of Utrecht, near the central railway station. You can obtain directions to the Jaarbeurs, or to your hotel, from the information desk at the station in Utrecht.

The Hands-on-Sessions will be held at the new building of the Center for Art, Music and Technology (CKMT). The Center is located in the heart of the city.

Lange Veiatraat 2b, telephone (0)30 - 332 366

Registration Area
Hands-on-Session and Tutorial registration will take place at the CKMT from 17.00 to 19.00 hrs. on Monday, September 26, 1988, and from 08.00 to 09.00 hrs. on Tuesday, September 27.

Registration for the Symposium only will be at the CKMT from 16.00 to 20.00 on Tuesday, September 27 and from 08.00 hrs. each day of the Symposium at the Bernardhal at the Conference Center.

Participants can receive mail during the Symposium, addressed to the Secretariat, at the registration desk, address see below.

Telephones are available in the central hall of the Conference Center.

During the Symposium you can be reached at the following telephone number: (0)30 - 955 461.

E-mail, including the name of the adresssee and stating "FISEA participant" may be sent to: mcvax!hku!fisea

Registration and Payment
Participants are strongly advised to pre-register for the Symposium. The price for Symposium registration received before July 15, 1988 will be Dfl. 325.--. The cost after this date will be Dfl. 400.--. The price for Tutorials and Hands-on-Sessions is Dfl. 150.-- for Symposium participants and Dfl. 200.-- for Non-participants. A deposit of Dfl. 200.-- is required to guarantee hotel reservations. Please complete the enclosed registration form and send it with the appropriate fee to:

Secretariat SCCA/FISEA
P.O. Box 23330
3001 KJ Rotterdam  The Netherlands
Telephone (0)10 - 4 360 371  Fax: (0)10 - 4 360 346
Payment for registration and hotel reservations should be made by check, payable to 'First International Symposium on Electronic Art' (FISEA). Bank to bank transfers of money should be directed to the account of FISEA with the ABN Bank Rotterdam, The Netherlands, account number 50.42.25.863. Be sure to include your name and address on the bank statement.

Your registration will be acknowledged by letter after receipt of fees due. On presentation of this letter at the registration desk you will receive all documents relating to the Symposium, including a conference badge to be worn at all Symposium activities and a special issue of the Journal Leonardo, dedicated to the Symposium.

Notification of cancellation must be in writing or by telex, telegram or fax to the Symposium Secretariat. Cancellations received before September 1, 1988, will be reimbursed the total amount less 25% for administration and banking cost. Refunds will be processed after the conference.

Accommodation and Meals
Rooms will be reserved for Symposium participants at several hotels in Utrecht. The cost of hotels includes breakfast.

Hotels
Category | Single | Double
---|---|---
First Class | Dfl. 200,— | Dfl. 230,—
Second Class | Dfl. 130,— | Dfl. 160,—
Third Class | Dfl. 75,— | Dfl. 100,—

Lunches are included in the registration fee and will be served in the Conference Center restaurant. Coffee and tea will be provided during the breaks. A bar is located in the Conference Center for informal meetings and there are many restaurants and cafes in the center of Utrecht, within walking distance from the Conference Center.

Symposium Language
The official language of the Symposium is English.

Symposium
Papers selected by the International Program Committee and the Organizing Committee will be presented on new developments and current problems in computer graphics, computer animation, image processing, electronic/computer music, computer poetry/literature and video art. Special focus will be given to the integration of different art forms, aesthetics of electronic art and application of Artificial Intelligence to art.

Symposium proceedings will be published and a selection of the best papers will appear in a special edition of Leonardo (Journal of the International Society for the Arts, Sciences and Technology).

Hands-on-Sessions, a Tutorial and a Workshop
A Tutorial, a Workshop and 7 Hands-on-Sessions will be given by international experts on various topics including computer graphics, computer music, image processing and computer animation on Tuesday, September 27. Participants can register for more subjects throughout the day. The Tutorial will take half a day, the Hands-on-Sessions half a day or a full day and the Workshop a full day. There will be an hour break for lunch and two breaks for coffee and tea during the day. Lecture notes will be given to attendees.

Industrial Exhibition
An Industrial Exhibition will be organized for the Symposium where companies will display their most recent developments for electronic art in hardware and software including computer graphic systems, computer music systems and interactive media.

Special Events
There will be an informal get-together in the lobby of the CKMT - Lange Vierstraat 2b - from 17.30 to 20.00 on Tuesday, September 27. During this event, the Centre for Art, Media and Technology will officially be opened. The official reception will take place on Wednesday, September 28. Details as to the time and location will be announced in the final program.

A selection of computer graphics will be exhibited at the Conference Center during the Symposium.

Music performances will be held Tuesday and Thursday evenings for Symposium participants at the Utrecht Academy of Arts Theatre, Janskerkhof 18 in Utrecht. On Friday evening performances will also take place for the general public.
Competition and Presentations
An additional art show will be held throughout the Symposium where video's, slides and prints that have been entered for this purpose will be shown. The exhibition will be open to the public and media coverage is expected. The deadline for entries is July 1.

A selection from this exhibition will be shown at the Utrecht Academy of Arts Theatre on Friday, September 30. Video's and films will be projected on a large screen.

Poster exhibitions will be held featuring live-demonstration of systems under development.

Prize-winners of the competitions will be announced during the Symposium. A world-wide press release with illustration materials will be organized. The international press will be invited to attend both the art show and the theatre presentation.

Omniversum
A special Omniversum competition is organized. The deadline is July 1. Information about this competition can be obtained from the Secretariat. The result of this competition will be shown at the Omniversum Theatre on Wednesday evening, September 28.

The Omniversum in the Hague is one of the two Space Theatres in the world which combine the superb Omnimax film projector and the Digistar planetarium projector.

The Digistar is a realtime vector graphics generator attached to a cathode ray tube. The monochromatic images are projected onto the dome of Omniversum. Digistar is designed to generate planetarium shows. Motion of the stars, planets, and galaxies are standard features of Digistar.

However, Digistar can manipulate and display any type of images, provided it consists of lines and/or dots. Up to twenty images can be displayed at the same time and independently translated, rotated and scaled. One single image can be quite large, e.g. the Digistar star field with its 7000 stars, is treated as one image.

The Groningen program during the First International Symposium on Electronic Art.

During the FISEA Symposium several activities will take place in Groningen in the northern part of Holland. The program in Groningen will include a lecture on fractal art by prof. Heinz-Otto Peitgen of the Institute for Complex Dynamics at the University of Bremen. Several panel discussions are planned, amongst others, on the relationship between electronic mass-media and art, and on the use of computers in the process of composing today, these will be followed by a concert of computer music. Several art schools will present their computer activities to the public. An elaborate interactive video installation by the artist Frits Maats will be installed. A program will be available at the symposium registration desk.

Center for Art, Media and Technology

The Centrum voor Kunst, Media en Technologie (Center for Art, Media and Technology) was founded in 1987 by the Utrecht Academy of Arts, one of the largest such institutes in Europe. The Center's new housing, available just weeks before FISEA, will include US $4 million in computer equipment, professional audio and video equipment and provide a unique and integrated environment for education, research and production in electronic art. During FISEA, guided tours will enable you to meet students and faculty members who will gladly inform you about the activities that are going on in the Center's 20,000 sq.ft. of computer gardens, audio and video studio's, etc.

SCCA, foundation for Creative Computer Applications

The SCCA was founded in 1984 in order to stimulate cooperation between scientists, technologists and artists. The thought behind this is that scientific participation is a necessary incentive for succesful artistic high-tech projects. The SCCA has organized many educational projects on computer art in Holland and initiated the computer graphics courses at Dutch art schools. Since 1987, the SCCA has cooperated closely with the Utrecht Academy of Arts.