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.

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

Committees

Organizing Committee
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Johan den Biggelaar (chairman)
Wim van der Plas (advisor)

Program Committee
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Frederik van der Blij NL
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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**

The members of the Organizing Committee wish to express their gratitude to the following for their cooperation and support:

- Anjerfonds Utrecht
- Stichting voor Publieksvoorlichting over Wetenschap en Techniek (PWT)
- Stichting Post Kunstvakonderwijs
- 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**

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

Plenary session
Chairman: to be invited

Invited speakers

09.00 - 09.45
title unknown
Paul Lansky

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

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

Parallel session
Chairman: John Lansdown

Institutional Networking
Panel on Computer Graphics Education
Lunch

Parallel session
Chairman: John Lansdown

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

Parallel session
Chairman: C. Kandall
**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
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
Cort 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
Jurgen Claus

09.45 - 10.30
Hyper Instruments
Tod Machover

10.30 - 11.00
Coffee

11.00 - 12.30
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

14.00 - 15.30
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 Vierstraat 2b, telephone (0)30 - 332 366

Registration Area
Hands-on-Sessions 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 addressee and stating "FISEA participant" may be sent to: mcvathkutfisea

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 SCGA/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.
Competitions 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 an image 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 image, 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 computermusic. 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 successful 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.