SIGGRAPH Education Committee
Annual Report

In response to decisions of the Executive Committee, the Education Committee has made changes to its makeup, direction and endeavors.

As reported previously, we have eliminated the SpaceTIme Student competitions. Although this has initially caused some confusion and negative responses, it will result in cost savings beginning this year and in the long run encourage students to enter their work into the regular conference venues.

Although this will result in a smaller amount of student work to be on display at the conference, the work that will be accepted into the CAF and Art Gallery will be of higher quality and will result in greater exposure for the entrants.

We have also begun to develop some ideas in the area of Professional Development.

Scott Owen formed a small task force comprised of

Marc Barr, (Chair)
Joe Marks, Disney
Peter Weishar, Dean of Media SCAD
Shish Aikat, Rhythm and Hues
Darin Grant, Dreamworks Animation
Yan Timanovsky, ACM HQ liaison with the ACM PD Committee
Steven Ibaraki, Member ACM PD Committee
Bill Poulson, Pixar

I have made attempts to communicate with these individuals to solicit their ideas and feedback and have had some good discussions with some of them, while having no responses from some others.

I have also had some discussions with additional contacts of mine from Autodesk and other academics and have made plans to have a variety of meetings on this topic at S2011.

At SIGGRAPH 2011 members of the Education Committee are involved with a variety of sessions, these include:

Birds of a Feather

1. Studio Views of Demo Reels

Industry professionals from various computer animation and visual effects facilities explain what they (and their studios) look for when reviewing demo reels and portfolios of students and recent graduates.

Craig Slagel, formerly of Rhythm and Hues
Barbara Dawson, CG Scout
Rick Stingfellow, Electronic Arts
Anjelica Casillas, Rhythm & Hues
Emma McGonigle, MPC

2. What Industry Needs Graduates and New Hires to Know

Knowledge and skill requirements for graduates and new hires.

Ryan Kuba, Environment Supervisor at Nitrogen Studios
Jon Cowley, Prime Focus
Doug Oddy, MPC
Larry Bafia, Centre for Digital Media.

3. The New Media and the Industry in China

Representatives from Chinese industry and universities discuss how their digital media programs are developing to meet the needs of their exploding economy.

Introductory Remarks
Bai Xuezhu, Communication University of China

Richard Smith, Centre For Digital Media, Vancouver

Panel Discussion
Moderator
Patrick Pennefather, Centre For Digital Media, Vancouver

Panelists
You Xiang, Vice President of Crystal CG, Nanjing

Lu Xin, Communication University of China

Chang Ming, 37 Entertainment

4. The New Media and the Academy in China

Representatives from Chinese academic digital media programs discuss how their programs are developing to meet the needs of their exploding economy.

Panel Discussion
Moderator
Patrick Pennefather, Centre For Digital Media, Vancouver

Pan Zhigeng, Zhejiang University

Larry Bafia, Centre For Digital Media, Vancouver

Zhang Xiaofu, Central Conservatory of Music, Beijing
Electroacoustic Music Association of China

Fu Zhiyong, Tsinghua University

Bai Xuezhu, Communication University of China

Yang Xiaosong, National Centre for Computer Animation, Bournemouth
University

Closing Remarks
Marc J. Barr, Chair, ACM SIGGRAPH Education Committee

5. Undergraduate Research Alliance
William Joel, Western Connecticut State University

6. Call for Contributions for the IEEE Computer Graphics and Applications' New
Education Department

Gitta Domik, University of Paderborn, Germany
Scott Owen, Georgia State University

7. Educators Meet and Greet, Sponsored by Autodesk

Conference Unified Jury

In response to comments from attendees regarding the inclusion of content of
interest to educators, Education Committee member Mike Bailey participated in
the Unified Jury for S2011 and will also serve in the same capacity for S2012.

Pre Conference Workshops

On the Saturday prior to the Conference, Gitta Domik will be having two small
workshops to update our resources in the areas of Visualization Curriculum and
our Computer Graphics Knowledge Base.

Mentoring

The Canadian organization GRAND (Graphics Animation and New Media) http://www.grand-nce.ca/ has agreed to fund stipends to students participating in this years SIGGRAPH Pioneers Mentoring program, which I have been working on with David Kasik.

We have accepted twelve students from local Vancouver area schools. The group is ethnically and gender diverse.

The Education Committee has agreed to support three of the student's teachers to attend S2011 and with the assistance of Dr. Amy Gooch, Computer Science, University of Victoria, arrangements have been made with a local Victoria Company Cebas to offer some of the parents of the students an opportunity to attend as well.

In collaboration with ACM-W, the Education Committee is again going to serve as mentors to two undergraduate college students who are recipients of the ACM-W Scholarship. Mentors have already been arranged and introductions made.

Online Resources

The Education Website (education.siggraph.org)

The Education website continues to be a valuable resource, with around 2000 visitors per month, but it needs to be revitalized and upgraded.

In addition to the regular updates and maintenance on the current site, Wobbe Koning is setting up a new site.

Due to unfortunate configuration errors it has been found undoable to add some of the envisioned functionality to the current Plone 2 setup, or to update the installation to more capable Plone 3 system. The community commenting and rating of content have therefore still not been added.

In cooperation with the rest of the SIGGRAPH systems managers' team, the new site has been designed, using Drupal CMS (http://devdrupal.siggraph.org/education).

This will replace the current site and we hope it will be able to provide the functionality needed to make the site community based and enable an enhanced submission and publishing system for educational resources in cgSource.

The next steps involve porting all relevant content over to the new site and setting up the added functionality, which can happen in tandem. A date for going live with the new site has not been set yet, and a new volunteer website assistant is now working with Wobbe. The draft proposal describing the work involved for the new site is attached to this report.

cgSource

Aliza Sorotzkin, Global Training and Education Manager at Side Effects Software has joined the cgSource committee, replacing Frederico Figueiredo who resigned from the committee late last year.

We have continued to correspond with authors who have submitted to the conference, and who have expressed interest in having including their materials in cgSource.

Last year we contacted over 50 authors for materials.

We recently received a new list for 2011 and are in the process of contacting the authors and getting their materials on cgSource. There are over 60 authors that were accepted into the conference that opted in to having their materials included in cgSource.

We also have over 800 submissions additional conference submissions that were rejected whose authors have opted in. Since it takes a considerable amount of time to parse through and manually contact each author, it is vital for automatic submission capabilities to be available in cgSource as the committee does not have the resources to process these manually. Authors will need to be able to upload their materials themselves as well as sign off on the creative commons license in the process.

Materials are organized into 2 categories in the cgSource page (education.siggraph.org/resources/cgsource); "Instructional Material" and "Career Related Material".

We have recently managed to recruit SCAD graduate student, Philip Likens, who has volunteered to help with Web support. He will be working with Wobbe Koning on the new site setup and porting over to the new Drupal system, as well as assist in adding new features such as commenting and ratings and archiving older materials.

Once the new system is up, we hope to be able to make cgSource a much more attractive resource as educators will be able to provide feedback authors as well as rate resources.

The Education Index

The Education Index, which is coordinated by Tereza Flaxman, is a comprehensive online database of educational programs in computer graphics and related fields. It has been serving the international academic community, students and the general public for five years. It currently lists 578 academic programs, with emphasis in animation, gaming and visual arts.

During this past year 3,544 people from several countries have searched the database.

Visits by Country:

1.	United States	1,540
2.	India	180
3.	China	167
4.	Norway	147
5.	United Kingdom	106
6.	Canada	96
7.	Germany	96
8.	Japan	90
9.	Russia	69
10.	Brazil	66

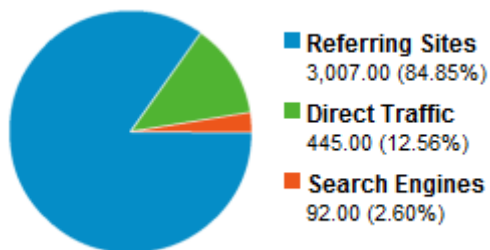Those who searched our database are classified as:

80 % new visitors
20 % returning visitors

The Education Index was listed on the SIGGRAPH website last year. This has contributed significantly to increase the visits.

The Education Index traffic sources in the past year are:

Sources	Visits	% visits
siggraph.org (referral)	2,889	81.52%
(direct) ((none))	445	12.56%
google (organic)	86	2.43%
khake.com (referral)	48	1.35%

Referring Sites
3,007.00 (84.85%)

Direct Traffic
445.00 (12.56%)

Search Engines
92.00 (2.60%)

Last November, Mikhail Shalai joined the Education Index team as a programmer volunteer. He has been working on the back end, improving the search system and communication between the Education Index team and the school programs representatives.

Future plans are to continue promoting the Education Index, keep improving the database search and interface, and facilitating the school representatives to update their program information.

Subcommittee Reports

ACM SIGGRAPH Education Committee
International Activities Report (2010-2011)

by Rejane Spitz (Brazil)
Global Outreach Coordinator
rejane@puc-rio.br

Introduction

One of the major objectives of the ACM SIGGRAPH Education Committee is to help establish a worldwide network of computer graphics educators.

Our international ACM SIGGRAPH Education Committee members have active roles in the planning and organization of education-related Computer Graphics events in several countries, which has shown to be an excellent opportunity for us to exchange information and promote our ACM SIGGRAPH educational activities worldwide.

Our current International Representatives are:

Gitta Domik (Germany) – European Representative
Rejane Spitz (Brazil) - South American Representative
Zhigeng Pan and Weihua Gao (China) – Asian Representatives

In this report we present several international educational activities, events and conferences in Computer Graphics and related areas in which our Committee members and International Representatives have been and/or are actively involved in 2010-2011, aiming at showing the scope and diversity of our international network.

Report from Europe
by Gitta Domik (Germany)

Here are the European Education Activities:

The Eurographics Education Papers were held on April 13th, 2011, at Eurographics 2011 in Wales, UK. Co-chairs Steve Maddock and Joaquim Jorge put together an excellent program:

"The Art and Science of Digital Production Arts", by Tim A. Davis and Donald H. House

"PhD Education Through Apprenticeship" by Daniel Patel, M. Eduard Gröller and Stefan Bruckner

"The Five Design-Sheet (FdS) approach for Sketching Information Visualization Designs", Jonathan C. Roberts

"High-Level Application Development for non-Computer Science majors using Image Processing", by Shesh Amit

"In at the Deep End: An Activity-Led Introduction to Creative Computing with Interactive Computer Graphics", by Eike Falk Anderson, Christopher E. Peters, Fotis Liarokapis and John Halloran

"Interdisciplinary game projects: opening the Graphics (back) door with the soft skills key", by Rafael Bidarra

Panel "The education of Visual Analytics and Visual Computing", chaired by Jonathan C. Roberts. Panelists included: Eben Muse, Jiawan Zhang, Kai Xu.

Panel "How should we teach CG?" chaired by Jean-Jacques Bourdin. Panelists include: Eike Falk Anderson, Timothy A. Davis

In 2012 we will be awaiting Education Papers at Eurographics 2012 from May13th to 18th, 2012, in Cagliari, Italy, with co-chairs Giovanni Gallo and Beatriz Sousa Santos. Deadline will be 9 December 2011, announced at http://www.eurographics2012.it/

Report from South America
by Rejane Spitz (Brazil)

In parallel with my SIGGRAPH activities, I have been conducting several other volunteer activities throughout this year, as a member of the Executive, Advisory, Scientific and/or Organizing Committees at several Conferences in South America. Those volunteer activities help me promote ACM SIGGRAPH educational activities and events through different communities, by building a major international network linking the areas of Art, Design, Architecture, Computer Graphics and Science.

In 2010-2011 I have been involved in establishing links and promoting our ACM SIGGRAPH Education Committee initiatives at the following conferences, held (or to be held) in South America:

1- MOBILEFEST Rio 2010 and MOBILEFEST Sao Paulo 2010

MOBILEFEST (International Festival of Mobile Art and Creativity) is a festival held annually in Brazil, which encompasses several activities: international seminar, workshops, international exhibition and recognition awarding for the best mobile works and applications.

1.1. MOBILEFEST Rio 2010:
In 2010, for the first time, MOBILEFEST was held in Rio de Janeiro, as a result of a partnership established with the Department of Art & Design at PUC-Rio, where I teach.

I worked as a collaborator in the organization of the event, and had the opportunity to promote SIGGRAPH events and activities, to talk about my activities as a SIGGRAPH Education Committee volunteer, and to encourage

speakers and attendees to join and attend SIGGRAPH conferences and its related events.

MOBILEFEST Rio 2010 site (http://www.mobilefestrio.com.br/)

MOBILEFEST Rio 2010 Final Session, in which I had the opportunity to encourage speakers and participants to join, get involved and submit their works to SIGGRAPH conferences.

MOBILEFEST Rio 2010 Seminar, held at PUC-Rio, May 2010

For additional information: www.mobilefest.com.br
1.2. MOBILEFEST Sao Paulo 2010:

In 2010, I have also been involved in the organization of MOBILEFEST São
Paulo, which was held from 21- 24 September, 2010 at MIS (Museum of Image
and Sound), at São Paulo. I have also participated in the Workshops and
Seminar, and was also a member of the Curatorial Committee.

http://www.mobilefest.com.br/

2- MOBILEFEST Rio 2011

In 2011, MOBILEFEST (International Festival of Mobile Art and Creativity) will be held only in Rio de Janeiro, once again in partnership with the Department of Art & Design at PUC-Rio. We are already working on the organization of the event, as well as participating as a member of the Curatorial Committee. It will be another excellent opportunity to promote ACM SIGGRAPH educational activities and events.

I am planning to distribute a SIGGRAPH 2012 CFP (call for participation) as well as SIGGRAPH 2012 posters and pins, as part of the materials each attendee/speaker will receive.

3. SIGRADI 2011 (Santa Fe, Argentina) - November 16- 18, 2011
The XV SIGraDi conference will take place November 16th through 18th 2011 in Santa Fe, Argentina. It is organized by the School of Architecture, Design and Urban Planning (Facultad de Arquitectura, Diseño y Urbanismo) of the Universidad Nacional del Litoral through its Center of Informatics and Design, CID. This year's Conference theme is "Augmented Culture". The Conference's keynote speakers will be Lev Manovich, Dale Herigstad, Ivan Ivanoff and Marcos Novak.

I am planning to distribute a SIGGRAPH 2012 CFP (call for participation), as well as SIGGRAPH 2012 posters and pins, as part of the materials each attendee/speaker will receive.

http://www.fadu.unl.edu.ar/sigradi2011

4- SIGGRAPH 2010 Panel Sessions "20XX. EDU: Grand challenges in Education"

Panel Sessions on the future of Education were held at SIGGRAPH 2010, in Los Angeles, as a result of a joint effort between ACM SIGGRAPH and the international association LEONARDO/ISAST (The Journal of the International Society for the Arts, Science and Technology). ACM SIGGRAPH Education Director, Prof. Marc J. Barr, LEONARDO/ISAST Executive Director, Dr. Roger Malina, and the ACM SIGGRAPH Education Committee's Global Outreach Coordinator, Prof. Rejane Spitz, with the support of Terence Masson (SIGGRAPH 2010 Chair) and James Mohler (SIGGRAPH 2010 Education Chair) worked together to organize those Panel Sessions.

During the Panel Sessions, a diverse group of outstanding researchers and artists, professionals in the academy and industry, educators and government agencies - including David T. Goldberg (HASTAC / University of California), Rebecca Allen (NOKIA Hollywood), Pamela Jennings (National Science Foundation), Sarah Cunningham (National Endowment for the Arts), Glenn Entis (VanEdge Capital), Donna Cox (NSCA), James Foley (Georgia Institute of Technology), and Andy van Dam (Brown University), moderated by Marc J. Barr (ACM SIGGRAPH Education Director) and Roger Malina (LEONARDO) - discussed the future of Education in its broadest sense, encompassing both formal and informal learning. The sessions were followed by a lunch meeting for Panel speakers and organizers.

Report from Asia
by Zhigeng Pan (China)

1- Organizing the promotion of SIGGRAPH 2011 in Hangzhou:

During the international conference of 3DIMPVT'2011 [May 16-19,2011] (in conjunction with the workshop DMDCM'2011), we invited Scott Owen to give a special talk on "ACM SIGGRAPH/SIGGRACH Asia". The talk was arranged as a Banquet Speech, and about 150 attendees joined the Banquet. The Call for Participation (CFP) was put in the conference bag of 3DIMPVT'2011, so that each attendee received a copy of it.

2 - Organizing the promotion of SIGGRAPH Asia 2011 in Chengdu:
During the international conference of CASA'2011 (in conjunction with the national conference on Educational Game and Virtual Reality'2011), we invited Zhiqiang Liu to give a special talk on "SIGGRACH Asia'2011". The talk was arranged as part of the Opening Ceremony, and about 200 attendees joined the ceremony. The Call for Participation (CFP) was put in the conference bag of CASA'2011, so that each attendee received a copy of it.

3- Establishing contact with professionals in the field of computer graphics, animation, virtual reality, game et al. in China, aiming at encouraging them to join SIGGRAPH events, and specifically encouraging them to send submissions to the track "Technical Sketches and Posters" (as I am the program chair of Technical Sketches and Posters for SIGGRAPH Asia 2011).

4- ASIAGRAPH'2010, Oct. Shanghai.
ASIAGRAPH is an event held in Asia, which includes technical presentations, CG exhibition, and posters. In the 2010 event in Shanghai, about 60 attendees from Japan, Korea and China joined the conference. ASIAGRAPH 2011 will be held in Tokyo (Japan), in October.

Report from Undergraduate Research Alliance
William Joel, West Connecticut State University

During the past year, activities of the Alliance have focused on individual members pursuing their respective efforts in undergraduate research. This summer, in Vancouver, existing members, as well as perspective new members, will share their experiences from the past year during our annual BOF session.

New connections will be made, as well as initial plans for future, inter-institutional work. Work will continue on the development of online resources for those institutions considering, or currently pursuing, undergraduate research in computer graphics and related areas.

Finally, there are two proposals for new endeavors that I would like to include. They are both related to professional development for faculty.

SIGGRAPH Faculty Internships in the Graphics Industry

This proposal, which preliminary work is being done for this year and will involve conference exhibitors would provide benefits to Faculty, Companies and SIGGRAPH.

I have already been in discussion with Mike Weil from Hall Ericson in regards to bringing this proposal to our exhibitors and will be meeting with many of them during the upcoming conference.

SIGGRAPH Prize in Education

The goal of this is to publicly recognize sustained excellence in, and a contribution to, the education of others in the fields of computer graphics and related disciplines incorporating computer graphics.

Copies of both proposals are attached to the end of this report.

In closing, I would like to reinforce that I am doing the best I can with reduced resources, while trying to keep an active and visible profile for the committee's activities both at the annual conference and during the rest of the year.

I have reduced funds spent for travel and complementary registrations and I am establishing what are intended to be long-term partnerships with vendors.

Report submitted by Marc J. Barr