Connecting Industry to Education

June 2012
Erik Noreke
http://kite.khronos.org/en
Return to Taiwan Since February 2012

Summary of visit then

- Khronos met with leaders from Taiwan industry and academia
- Khronos announced the KITE initiative to connect industry to education
- Dr. Jenq-Kuen Lee volunteered to be the first Taipei KITE Chair, lending his expertise to Taiwan KITE development activity
# Academia is Responding Positively

Seven New Academic Members joining in 2012 already!

<table>
<thead>
<tr>
<th>Khronos Academic Member</th>
<th>Country</th>
<th>Date Joined Khronos</th>
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<tbody>
<tr>
<td>ITRI</td>
<td>Taiwan</td>
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</tr>
<tr>
<td>University of Bristol</td>
<td>Great Britain</td>
<td>pending</td>
</tr>
<tr>
<td>Oregon State University</td>
<td>USA</td>
<td>29 May 2012</td>
</tr>
<tr>
<td>Politecnico di Milano</td>
<td>Italy</td>
<td>01 Mar 2012</td>
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<td>Universita di Bologna</td>
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<tr>
<td>Universite Claude Bernard Lyon</td>
<td>France</td>
<td>13 Feb 2012</td>
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<td>Imperial College London</td>
<td>Great Britain</td>
<td>17 Jan 2012</td>
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<td>University of Toronto</td>
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<td>University Western Australia</td>
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<td>Kyungpook National University</td>
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<td>Seoul National University</td>
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<td>UMEÅ</td>
<td>Sweden</td>
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KITE

- Khronos Institute of Training & Education is an initiative to increase communication and cooperation between INDUSTRY and EDUCATORS

- Help accelerate development of educational materials for Khronos APIs
- Develop standardized testing methods for Khronos API proficiency
- Make Khronos certification testing widely available in the industry
Where Did the Idea for KITE Originate?

- Khronos spends time on the road at speaking sessions and shows
- For many years we heard the same comments from educators:
  - “It’s hard to keep up with so many specifications under rapid development”
  - “It’s challenging to convert specifications into courses”
- Those comments became more frequent and urgent
- We started going on road shows especially to seek input from researchers, academia and students
Comments Heard in Taiwan, Korea & Japan:

• From Industry:
  - “We hire 100 young OpenGL ES engineers a year and we spend months re-training them to consistent standards - our standards - and it costs us time and money.”
  - “We contract 50 OpenGL engineering consultants every year and we want assurances that they are educated and skilled to a measurable benchmark before we engage them.”

• From the Korean government:
  - “We have committed significant financial resources to KITE to develop a means to show that our students have the highest ranking scores”
  - “We intend to create more jobs in the global workplace for our students and experienced engineers by being able show we have high-ranking engineers”
KITE Process

Certification helps students and professionals prove their proficiency and land top jobs in the industry...

Educators and third party certifiers administer Khronos courses and Certification exams

Develop courses and tests using Khronos materials

Cooperate on developing:
- Best Practices
- Educator Guidelines
- Courseware
- Test materials

Educators and Certifiers

Students and Working Professionals

Khronos Members (Industry and Academic)
Working Groups Activities for Education

API Working Groups (Industry and Academic)

- Conformance Tests and Adopters Program
- Ratified Specifications
- SDKs, Sample, Ref Cards and Man Pages
- Educator Guidelines and Courseware
- Examination Materials

Members
Wider Community

Adopters
Build conformant implementation and products

Developers
Develop applications using the APIs

Educators / Certifiers
Training Courses Examinations and Certification
Next Steps

• Khronos continues to refine plans regularly at internal sessions
  - Finalizing details before opening the program to participation

• On the road talking to Researchers and Academia
  - This week in Taiwan
  - June 25-28 at JeJu Island in Korea for summit of 50+ professors

• Reaching out to companies able to administer Khronos Certifications
  - As a viable business

• Resolve outstanding questions
  - Which geographies require certification of educators and institutes?
  - Identification and selection of certification administration companies

• Get involved!
  - Join Khronos and drive Khronos API Education
  - http://kite.khronos.org/en