NIWeek 2011 Day 3 Keynote Quote Sheet

Accelerate Student Innovation
Ray Almgren, Vice President, Product Marketing,
National Instruments

Chasing Tornadoes for Science
Tim Samaras, Severe Storms Researcher

Thursday, August 4, 2011
8:30–10:00 a.m.

"We equip scientists and engineers with tools that accelerate productivity, innovation, and discovery."
Ray Almgren, Vice President, Product Marketing, National Instruments

"If you want students to pursue careers in engineering, don't tell them they have to be great mathematicians *[via the National Academy for Engineering]*. Instead you need to talk to them the same way Shelley taught yesterday *[from day 2 NIWeek keynote]* about solving grand engineering challenges, making a difference in the world and changing the world."
Ray Almgren, Vice President, Product Marketing, National Instruments

"We finished this subsystem *[for our 3D imaging display]*, in just three days, and we even had time to add barcode recognition for any products on display."
Mohan Xu, Student, Tsingua University, China

"In total it took us three months to take our idea from paper into a real system. There is no way we would have been able to create so many subsystems in a short time span without using graphical system design. We were able to reuse hardware from past projects and we only spent $340 USD for all of the additional components."
Mohan Xu, Student, Tsingua University, China

"Right now the graphical system design platform is being used in over 6,000 universities in 110 countries around the world."
Ray Almgren, Vice President, Product Marketing, National Instruments

"The true value in the class comes when you can give students real-world challenges that students have never seen in the back of the book."
Harry Asada, Ford Professor of Engineering, Massachusetts Institute of Technology

[Explaining Plug Animation Loop stage of the undersea oil leaks project] "This is where LabVIEW really came in handy, because we could change parameters, we could redeploy, and test in just seconds. So instead of waiting for code to compile, we could spend our time on algorithm engineering."
Trevor Shannon, Senior, Mechanical Engineering, Massachusetts Institute of Technology

"The risk with a project like this *[undersea oil leaks project]* is that students often get stuck on technical details. They have to spend hours and hours troubleshooting and fixing something. We found the CompactRIO provided the perfect solution to meet our needs."
Harry Asada, Ford Professor of Engineering, Massachusetts Institute of Technology

“We got a lot of feedback that we should have LabVIEW in the high schools. And after a number of years working with a number of vendors and professors and teachers, and earlier this spring, we came out with LabVIEW for Education and LabVIEW for LEGO® MINDSTORMS®, and it’s just out now and starting to get into high schools around the world. And we got some validation this week that we think we’re on to something.” *[Before introducing 14-year-old Certified LabVIEW Associate Developer]*
Ray Almgren, Vice President, Product Marketing, National Instruments

[Video] “The reason I use LabVIEW is it gives me the freedom to use the traditional probes that I’ve used in the past and use traditional labs, but it also gives me the freedom to be creative and my students to be creative. LabVIEW offers a very structured environment that’s very easy for students to pick up, but it also has a really high ceiling so students can reach their full potential.”
John Sperry, Engineering Teacher, Anderson High School, Austin, Texas

“If a teacher asks me for advice for how to inspire their students, I would say, ‘Ask your students what they want to do and give them the tools to go and do it.’”
John Sperry, Engineering Teacher, Anderson High School, Austin, Texas

“I can’t tell you how proud I am and excited to have National Instruments and LabVIEW along for the ride.”
Tim Samaras, Severe Storms Researcher

NATIONAL INSTRUMENTS
11500 North Mopac • Austin, TX 78759-3504 USA
Tel: (800) 433 3488 • Fax: (800) 683 9300
info@ni.com • ni.com