

SDR Forum Smart Radio Challenge Sponsors Contributions Brief Sheet

The MathWorks (www.mathworks.com)

- Use of 16 MathWorks software tools including MATLAB and Simulink for the duration of the contest
- Training at The MathWorks at Natick, MA headquarters August 4,5,6, 2006 (for those who can attend)
- Training at the November SDR Forum conference
- Web-based training for professors and students
- Technical support via designated staff via phone and e-mail
- Mentor support via designated staff to guide teams

Xilinx (www.xilinx.com)

Xilinx University Program

- Free Xilinx devices for universities developing their own platform
- Free tools and training (additional details to follow)

Note that Xilinx is offering a \$5,000 award for best solution using Xilinx technology (additional details to be announce at a later date)

Xilinx DSP Division:

- 5 "WARP" SDR Kits (see attached slides for some description) for use in Problem Set 4. Each kit will include 2 WARP platforms with RF cards so they can wirelessly transmit to each other.

Zeligsoft (www.zeligsoft.com)

- Use of 1 copy Zeligsoft CE per team
- Use of 2 copies of Zeligsoft Universal Code Generator per team
- Use of 1 copy of Zeligsoft SCA Test per team
- 1 day of training (details to be disclosed)
- Web-based training
- Point of contact mentor
- Standard product support

All software products and support will be available for the duration of the challenge

PrismTech (www.prismtech.com)

- Free use of appropriate Spectra tools for the duration of the project (PrismTech to help determine the appropriate software tools and specify the operating system). Spectra tools may include MDD, code gen and test and run-time operating environment (middleware and SCA core framework)
- A free on-line (webex) start-up training course for using the tools (at PrismTech's convenience)
- Free email first-line support (limited to issues with the tools, not the application - at PrismTech's discretion)
- The above limited to three users and one support contact per academic team.

Synplicity (www.synplicity.com)

- Use of Synplicity tools for duration of the contest (details to be determined)

Texas Instruments (www.ti.com)

- Challenge teams will be provided with TI's Small Form Factor (SFF) SDR Kits. The kits consist of baseband hardware (ARM9+C64x DSP SOC combined with Xilinx Virtex4 FPGA) and Analog IF hardware (TI ADC and DAC ICs) with CCS IDE for DSP SOC and Xilinx FPGA IDE. In addition there are Lyrtech tools integrated to support MathWorks Matlab/Simulink development environment, so users can combine their MathWorks software tools with the SFF SDR Kit and develop a complete prototype radio system. The RF front end would have to be emulated in Mathworks environment.
- Training (details to be determined)

Altera (www.altera.com)

- Challenge teams will be provided with Altera's Stratix II DSP Development Kits, which include the full suite of Quartus II software used for programming any Altera devices, as well as Altera's DSP Builder tool suite. More details will be available soon.
- Training (details to be determined)

Export restrictions may apply on some of the above contributions. Additional details will be provided at a later date