

MOTIVATE your

STUDENTS

with

MUSIC
ENGINEERING

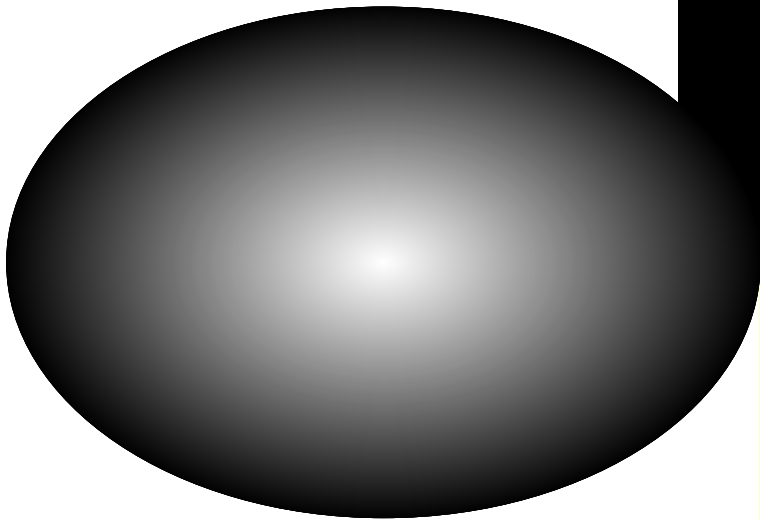


by Celeste Baine

Music is pleasurable.

Music is beautiful, relaxing, and fun. It develops the senses, teaches rhythm, and helps develop language and social skills. Music stimulates creativity, reduces stress, and improves your mood. According to the American Music Conference (AMC), music is a major stress reducer that increases melatonin, the hormone that increases the immune system's natural cancer-killing cells.

The AMC goes on to say that, "Young kids who make music show improved spatial-temporal



reasoning, which is the foundation of later success in math and science." Reports from the Silicon Valley show that an abundance of scientists and engineers are also practicing musicians. In addition, active listening (playing the air-guitar or singing along to your favorite tune) is known to improve brain power. Students who participate in music get better grades than those who don't.

If your students are wearing iPods in class, dancing in the halls, reciting lyrics regularly and talking about this or that new song, you may find that they perk up and become engaged with lessons on music engineering. In Celeste Baine's new book, *The Musical Engineer: A Music Enthusiast's Guide to Engineering and Technology Careers*, you will not only learn about the many approaches to combining engineering, technology and music into a creative and lucrative career but the teacher's edition also includes a 15-30 minute PowerPoint presentation about careers in the music engineering industry to jumpstart your introduction as well as activities for creating their own instruments.

If they love music, computers, electronics and mechanics, or have a love for gadgets, combining music with engineering or technology may provide an excellent learning opportunity. Not only can it lead to a successful career contributing to the newest releases on the charts, but it can also lead to success creating instruments or changing the way we listen to music. Think about how the iPod engineering division has changed the world. The good news is that this field is wide open with plenty of opportunities. Students can get a formal engineering degree, a music engineering technology degree, a certificate or they can be self-taught. They can go to school for four or more years, two years, one year, one month, one week or one hour. Whatever their passion and whatever their taste, there is something out there for them.

The *Musical Engineer* presents possibilities you might not expect. It covers topics ranging from the design and construction of stadium and studio sound systems, to the design and manufacture of iPods, electronic instruments, gaming sound, MIDI programming, ring tones, microphones and speakers, recording, and much more.

For more information about *The Musical Engineer* or to read a free excerpt, visit the Engineering Education Service Center at <http://www.engineeringedu.com>.

If you want to explore sound with K-6 students check out the curriculum developed by the Museum of Science, Boston <http://www.mos.org/eie/>. Their Sounds Like Fun: Seeing Animal Sounds (Sound and Acoustical Engineering for Elementary Students), includes lesson plans, assessments and a bird sounds CD-ROM.

Celeste Baine is Director, Engineering Education Service Center and winner of the 2004 Engineering Dean Council's Award for the Promotion of Engineering Education and Careers and the Winner of the 2005 AAES Norm Augustine Award.

Mail Order Marketplace

 <p>80/20 The Industrial Erector Set®</p>	<p>80/20 Fractional</p>	<p>80/20 Inc.</p> <p>For the Full Story... www.8020.net Toll Free 877-248-8020 Fax: 219-248-8029 Free Product Line Catalog Available! The Industrial Erector Set®</p>	<p>80•20 Metric</p>
--	-----------------------------	---	-------------------------

GRAPHISOFT.
ARCHICAD 8

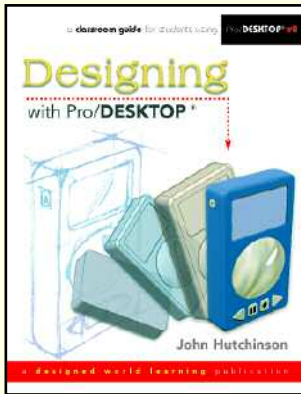
The world leader in Building Information Modeling

50 seat university lab license of ArchiCAD 8 available from Integrated CADD Services, only \$150. Call 800-383-5195 to order.
www.intcad.com

NEW

Textbook for Middle / High School

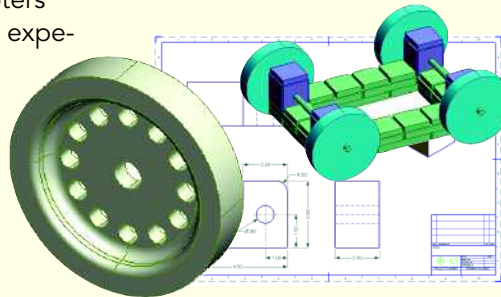
Using Pro/DESKTOP® without a student textbook? Here's the book you've been waiting for!



Designing with Pro/DESKTOP®
by John Hutchinson
436 pages
Full Color, perfect lay-flat binding
ISBN 0-9763351-0-7

- ◀ Covers major features with step-by-step exercises.
- ◀ Full color photos make following along easy.
- ◀ Projects at the end of chapters are consistent with student experience.
- ◀ Advanced design projects apply what students have learned.

- ◀ Introduces design principles and provides a broad design background.
- ◀ Assembly and animation are covered.



email: sales@designedworldlearning.com

www.designedworldlearning.com