



PARTNERS IN PROGRESS

2010

“Apprentice Opportunities are Endless”



CONGRATULATIONS

By participating in the National Contest you
have demonstrated that you are the Best of the Best

You represent our future and we are proud of your
accomplishments

The Sheet Metal Industry

- Unique to the Building Trades
- Most Trades are “Installers”
- The Sheet Metal Workers :
 - Design
 - Manufacture
 - Coordinate
 - Install
- Therefore many more diverse opportunities are available

Areas of opportunity

- HVAC Commercial
- Industrial – Fume/dust/pollution control
 - Nuclear Power / Welding Technology
- Architectural Sheet Metal
 - Metal Roofing /Siding
- Specialty Manufacturing
- Food Service Industry
- Residential
- HVACR Service
- Indoor Air Quality
- TAB
- Commissioning
- Building Performance
 - Energy Audits

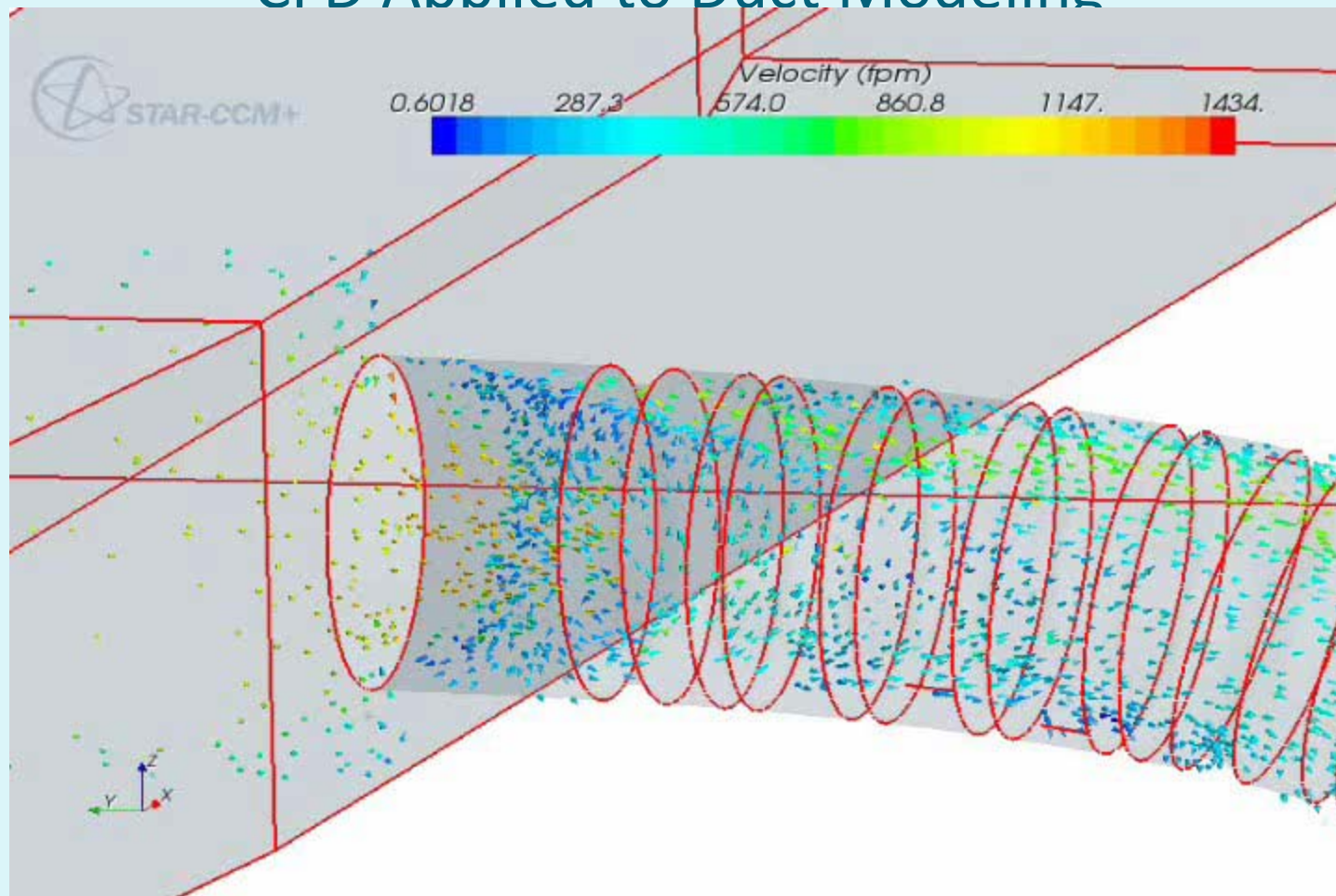
Career Paths

- Field Installation
- Shop Work
 - Computerized Manufacturing / Lasers / H.P. Water cutters / Welding Processes
- Field and Shop Supervision
- Operations Management
- Project Management
- Detailing – BIM –CCS – CADD
- Estimating
- Administration
- Ownership

Emerging Markets and Technology

- BIM “Building Information Modeling”
- Design – Build Contracting
- New “CCS” Detailing License
- Indoor Air Quality
- TABB Certification
- Life Safety Certification
- Filtration/ Pressurization Certification
- Commissioning
- Building Performance
- Energy Audits
- Leed’s
- Green Building
- CFD

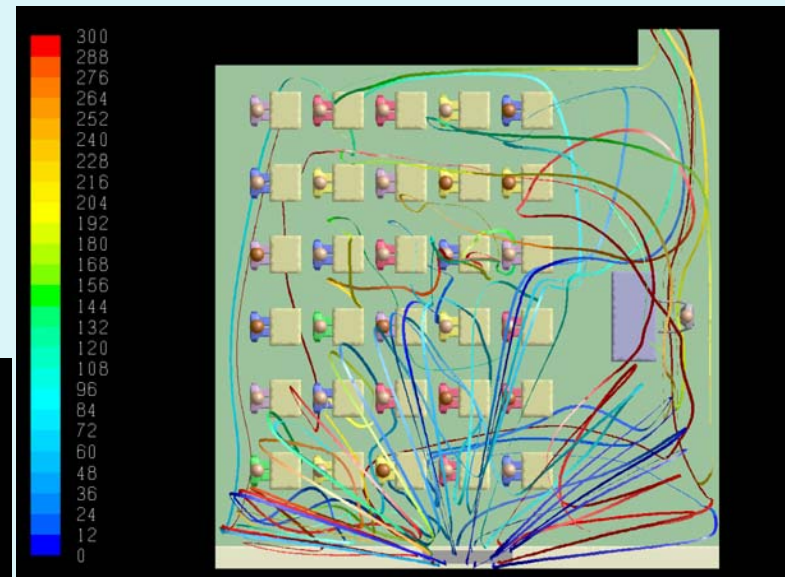
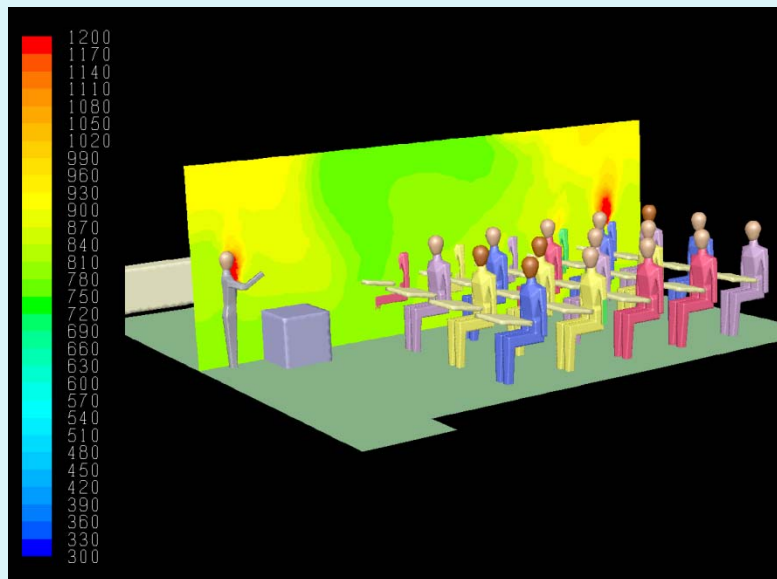
CFD Applied to Duct Modeling



Classroom IAQ and Energy Studies

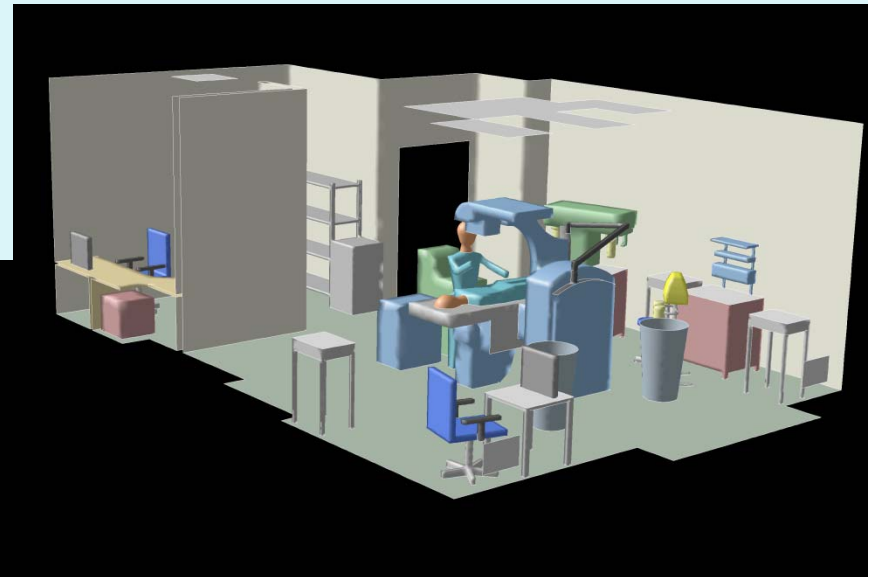
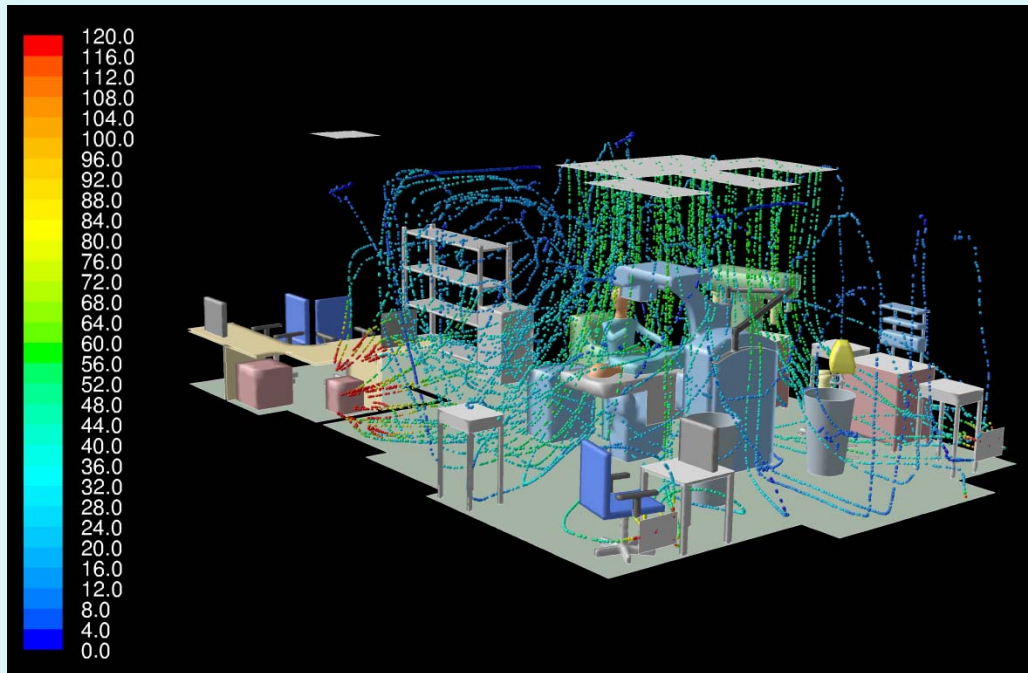
CFD used to determine IAQ & Ventilation

- Calculate carbon dioxide levels from student Respiration.
- Calculate IAQ, RH and Ventilation effectiveness.



Operating Room Studies

CFD in Surgery Areas



-Calculate unscavenged anesthesia gas levels for surgeon safety.

*-Evaluate ventilation and
-cleanliness of OR*

Preparing for the Future

- **Education:**

- *All of these career opportunities will require extra effort on your part*

- ITI -NEMI- ICB are paving the way .

- We have the best , brightest , most dedicated Instructors of any Trade. They all deserve

- Our gratitude for the fantastic job they do

- Graduating Apprentices in Indiana receive an AAS Degree from Ivy Tech.

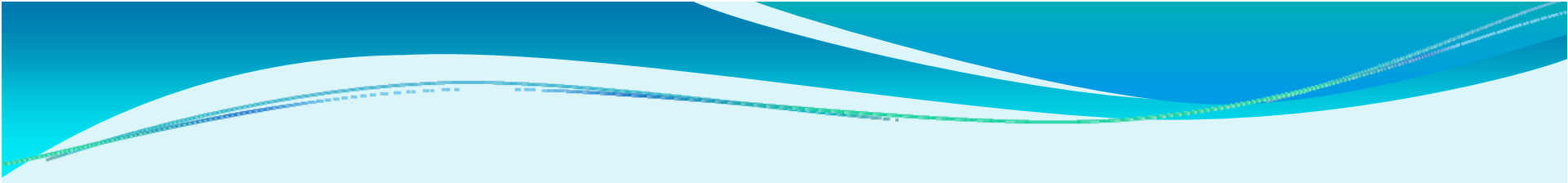
- We have a bachelors Degree program in place with IUPUI and another pending with the University of Southern Indiana , that awards our Graduates 61 credit hours toward a Bachelors Degree.

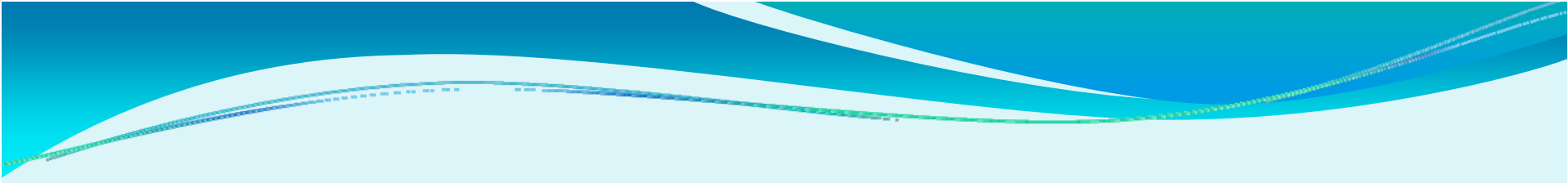
The opportunities are here. *The Trade will return your investment in education*

- **“It is your decision”**

Let your Contractor know your ambitions and interests

- Take advantage of the up-grade classes available

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- Your Apprenticeship equals approx. 6 months of concentrated class room instruction.
Is that sufficient to learn this Trade ?
 - NO
 - You will learn the Trade from OJT and extra effort
 - Pay attention , learn on the job
 - Ask questions , show an interest

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- Technology is changing our Trade everyday
 - New opportunities will continue to develop
 - Our people are the most important asset we have
 - The future is yours ... You are the best
 - You are our hope for tomorrow
 - Thanks and Congratulations again