



# Teachers Registration Packet

**33<sup>nd</sup> IDEA Annual Drafting/CAD Competition 2010**

March 5, 2010

**These items should be included in this online packet for you to copy:**

- Letter to Teachers (Page 2)
- Registration Form (Page 3)
- Competition Time Table (Page 4)
- Rules and Regulations (Page 5-6)

# ILLINOIS DRAFTING EDUCATORS ASSOCIATION

## Oakton Community College

7701 N. Lincoln Avenue

Skokie, Illinois 60077

October, 2008



Dear Educator,

The Illinois Drafting Educators' Association has appreciated your support in the past by hosting a regional drafting competition. This is a time-consuming task that could not be possible without your help. Again we are calling on you and your college to host the **33<sup>rd</sup> I.D.E.A. Regional Drafting/CAD Competition** that will be held on **Friday, March 5<sup>th</sup>, 2010**, at twenty centers across the state. *NOTE: In case of inclement weather, Friday, March 13<sup>th</sup>, is reserved as a make-up date.* **First and second place regional winners** will be eligible to compete at our state competition to be held in **April 24, 2010**, at ISU in Normal. Last year 111 teachers and 1136 students were involved at the regional level. At the State Competition 72 teachers and 207 students were involved.

[This year's paperwork](#) will be again all handled via the [IDEA web site](#), including regional site locations, calendar of events, rules and regulations, entry form, and updates. Please check the web site:

<http://www.idea-online.org/>

**Please fill out the Entry Form enclosed in this packet and e-mail it to:**  
[IDEA@OAKTON.EDU](mailto:IDEA@OAKTON.EDU)

This is our second year as competition directors. As a former High School Industrial Arts Teachers, AI still is, we would like to help promote Drafting and Design though out the State. We are looking forward to working with you to make this event a positive experience for you and your students. .

Thanks again for making last year's drafting contest such a success!

Sincerely,

Joe Cirone / AI Rosen

I.D.E.A. Competition Directors

847-376-7612

E-mail: [idea@oakton.edu](mailto:idea@oakton.edu)

**33<sup>rd</sup> ANNUAL IDEA DRAFTING/CAD/MODELING COMPETITION  
REGIONAL COMPETITION ENTRY FORM**

RULES & REGULATIONS

- Entry fee of \$7.00 per student (including alternate) must accompany entry form paid to the IDEA Financial Director. Alternates are not required, no other substitute entries will be accepted.**
- Each instructor must be an IDEA member** of the present school year 2008-2009.
- Entry is limited to 3 entrants of the drafting instructor's students per division. An alternate maybe registered for each division.  
**Regional Directors may limit entrants to 2 per division when facilities cannot handle entry numbers.**
- Students enrolled in vocational programs meeting more than 1.5 hours per day may not compete in the Introductory Divisions.
- A student may only be registered in one division.

**Use Only This Electronic Form and fill in all fields: attach this form to an e-mail / mail on or before January 28, 2008.**

**E-Mail this as an attachment form to each of the following:**

(copy 1) Competition Director, [IDEA@oakton.edu](mailto:IDEA@oakton.edu)

(copy 2) [Regional Site Director \(check Regional Competition Site map for director's E-mail address\)](#)

**Print and mail a copy of this form with Payment to:**

**Mr. Sieczkowski, IDEA Financial Director  
South Elgin High School  
224 Juniper Cr. Streamwood, IL 60107**

School Name:  
School Address:  
City, State, Zip:  
School Phone Number:

Teacher's Name:  
Teacher's E-Mail:  
Teacher's Home Phone:  
Regional Site #:

Division	Fee \$7.00	First Name	Last Name	Teacher's Name	School
Intro. Bd.					
Intro. Bd.					
Intro. Bd.					
Alternate					
Intro. CAD					
Intro. CAD					
Intro. CAD					
Alternate					
Mach. Bd.					
Mach. Bd.					
Mach. Bd.					
Alternate					
Mach. CAD					
Mach. CAD					
Mach. CAD					
Alternate					
Arch. Bd.					
Arch. Bd.					
Arch. Bd.					
Alternate					
	Type In 2D or 3D	Declare which division the entry will participate in 2D - 3D			
Arch. CAD					
Arch. CAD					
Arch. CAD					
Alternate					
Modeling					
Modeling					
Modeling					
Alternate					
Total					
	\$30	<b>IDEA Membership Fee for each Teacher registering students. It is to your advantage to fill out an individual entry forms for each teacher; to enter more students.</b>			
Grand Total					

# IDEA Annual Drafting/CAD Competition

*Timetable for the 2010 Competition*



**February 19<sup>th</sup>, 2010** - Regional Registration deadline;

1. Mail registration form (pages 8 & 9 of this document) and fee payment to:

**Attn: Mr. Sieczkowski**  
IDEA Financial Director  
South Elgin High School  
224 Juniper Cr. Streamwood, IL 60107

NOTE: Send by Registered Mail if concerned about deadline.

[JoeSieczkowski@u-46.org](mailto:JoeSieczkowski@u-46.org)

2. E-mail registration form (pages 3 of this document) to:

[IDEA@Oakton.edu](mailto:IDEA@Oakton.edu)

Joe Cirone / Al Rosen  
IDEA Competition Directors

E-mail another registration form to:  
Regional Director at the Site the high school will be competing in.

**February 19<sup>th</sup>**

3. E-mail your list of students and final counts to your Regional Site (Your Local College) and

[IDEA@Oakton.edu](mailto:IDEA@Oakton.edu)

4. Drawing problems will be mailed to Competition Sites(Your Local College) shortly after by:

**Ryan Brown**  
Assistant Competition Director  
Illinois State University  
5100 Industrial Technology  
Normal, IL 61790-5100  
(309) 438-2611

**March 5<sup>th</sup>** 5. IDEA Regional contest at your Local Community College.

**March 12<sup>th</sup>** 6. Snow date if needed

**March 31<sup>st</sup>** 7. Registration forms for State Competition need to be emailed by 12:00 p.m.

[IDEA@Oakton.edu](mailto:IDEA@Oakton.edu)

**April 24<sup>th</sup>** 8. IDEA State Competition at ISU in Normal, IL.

# Rules and Regulations

## 33<sup>nd</sup> IDEA Annual Drafting/CAD Competition 2010

### General Information:

1. There is a \$7.00 entrance fee per student for regional competition. There is no registration fee for contestants that advance to the state competition.
2. Instructors who are not members by December 1<sup>st</sup> of the current school year must pay a \$30.00 membership fee to the I.D.E.A. before students will be registered for the competition.
3. **Entry is limited to three (3) entrants and one (1) alternate of the drafting instructor's students per division. When the community college cannot handle entry numbers, each teacher will be allowed to enter two students per division. See new Architectural CAD requirements below.**  
*\*Note: In an effort to increase attendee's additional entrants may be allowed upon approval by your Regional and State Directors, additional seats for software may be obtained from your AutoDesk provider\**
4. Competition drawings and grading sheets may be picked up by the competitors after the awards ceremony.
5. Students enrolled in Industrial Technology programs meeting more than 1.5 hours per day may not compete in the Introductory Divisions.
6. Students must compete at their feeder Community College, or nearest Regional Site, or contact the State Competition Director to check on available space at another competition site.
7. A student can only be registered in one division.
8. First and second place winners, when there are more than five entries at the regional competition, will advance to the state competition. Divisions with less than five entries, only the first place winner will advance to the state competition.
9. Students NOT registered for regional or state competition will NOT be allowed to compete.
10. Regional entry deadline - Postmarked by Friday February 19<sup>th</sup> 2010; Regional Competition is March 5<sup>th</sup>, 2010.
11. State entry deadline – Postmarked by Monday, March 31, 2010; State Competition is April 24<sup>th</sup> 2010.

### Divisions:

1. **Introductory Board:** Entrants must have had less than one year of high school. Competitors will draw specified views of a given drawing problem. The solution may include dimensioning and will fit on either "A" or "B" size media. Recommended time limit is 1.5 hours for drawing and 1 hour for written test.
2. **Introductory CAD:** Competitors will draw specified views of a given drawing problem. The solution may include dimensioning and will fit on either "A" or "B" size media. Recommended time limit will be 1 hour for drawing and 1 hour for written test.
3. **Machine Board:** Competitors will draw specified views (orthographic, auxiliary and/or sectional) from a given pictorial or orthographic views in inches or metric. The solution will include dimensions and notes and will fit on "B" or "C" size media. Recommended time limit is approximately 3 hours for a drawing.
4. **Machine CAD:** Competitors will draw specified views (orthographic, auxiliary and/or sectional) from given pictorial or orthographic views in inches or metric. The solution will include dimensions and notes and will fit on "B" or "C" size media. Recommended time limit is 3 hours for drawing and planning time. Note: This is still a 2D drawing problem. No 3D modeling will be allowed to assist with problem solving.
5. **Architectural Board:** Competitors will design and/or draw specified views, details, or sections using materials, specifications and drawings provided. The drawing will fit "B" or "C" size media. Recommended time limit is 3 hours for drawing.
- 6/7. **Architectural CAD:** Competitors will design a solution and then either draw or model specified views, details, or sections from materials, specifications and drawings provided. The drawing will fit "B" or "C" size media. Recommended time limit is 3 hours for drawing and planning time.

**There will be two sets of winners again within this division. Entrants must designate 2D or 3D when registering. Students who "draw" all the views using drafting procedures will be judged separately from those who "model" the building and use software to create the views. No 3D modeling will be allowed for entrants who specify 2D on their registration form. These entrants will not be allowed to use 3D modeling tools within programs such as AutoCAD Architecture (Architectural Desktop), Revit, ArchiCAD, SoftPlan, etc.**

8. **3D CAD Modeling:** Competitors will model objects within a designated time period. Entrants will calculate volume and distance checks of the objects modeled. In some cases, the time limit may be only 1 hour, in other cases, it may be as much as 2 hours. There will be MORE problems than most students can do, but the student who scores the most correct volume and distance checks will be the winner.

## **Board Competitors:**

Students in this field are responsible for providing their own board drafting equipment at the regional and state competition sites.

Competitors are to provide the following for both regional and state competitions:

1. Drawing board with T-square, parallel rule, or drafting machine (Minimum size 20" X 24").
2. Triangles (45 degree and 30 X 60 degree).
3. Scales: Customary inch and metric for Introductory; Mechanical Engineer's scale with decimal inches, fractional inches, and a metric ruler or scale for Machine; Architect's scale for Architectural.
4. Protractor.
5. Eraser (manual), erasing shield, brush, dry cleaning pad, powder, or dust rag.
6. Drafting tape.
7. Compass or full instrument set.
8. Lead sharpening device.
9. Pencils or lead holders with F, H & 2H leads.
10. Circle template (up to 2").
11. Ellipse template (up to 2").
12. Backing paper (18" X 24").
13. Pocket calculator.

## **CAD Competitors:**

### **Regional:**

Teachers or students should check with the Regional Director of their site to see what equipment will be available for student use. If a site has a limited number of CAD systems, a Regional Director may allow students to bring their own system.

### **State:**

AutoCAD 2010 products will be provided by I.S.U. Only students using programs other than AutoCAD will be allowed to bring their own CAD system.

## **All Competitors:**

### **Scoring:**

1. Qualified judges, from industry when possible, will score problems in each division.
2. Drawing problem construction and technical sketches will be judged on completeness, accuracy, line quality, lettering and neatness. CAD problems will be judged on completeness, accuracy, line types and dimensioning.
3. Written tests will be judged on accuracy and completeness of answer.

### **Prizes:**

1. A first place plaque will be awarded in each division at each regional site. First, second and third place plaques will be awarded at the state competition.
2. All entrants and their instructors will receive a certificate of participation.
3. Additional vendor prizes (such as CAD software or drafting tools or textbooks) may be awarded if available.

### **Responsibilities:**

1. Student transportation is the responsibility of the participating schools and instructors or parents.
2. The student, instructor and parents are responsible for being adequately prepared for the above events.
3. The I.D.E.A., Regional sites or ISU is NOT responsible for students and their respective CAD systems while attending these competitions.
4. The I.D.E.A., Regional sites or ISU is NOT responsible for students as they travel to and from the regional or state contest site.