

Regional Director's Pre-registration Packet

33nd IDEA Annual Drafting/CAD Competition 2010

March 5, 2010

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

- **Regional Directors Checklist** (Page 2-3)
- **Prize Distribution Sheet** (Page 4)
- **Competition Calendar** (Page 5)
- **Rules and Regulations** (Page 6-7)
- **Regional Registration Form for you Site** (Pages 8 & 9)
- **Poster Advertising Drafting Competition** (Attached)

Regional Director's Checklist

IDEA Annual Drafting/CAD Competition 2010

I. Advertise drafting competition

- A. Create/update a list of high school drafting/CAD teachers in your college district
- B. Send letter of invitation to high school teachers with regional competition information: date, time schedule, location, rules, paper sizes for problems, entry form, map of college site, hardware/software available, parking permits and poster
- C. Place event on department & college calendars

II. Develop drafting competition program

- A. Welcome and introduction of college staff
- B. Schedule for the day
- C. Map of facilities with room locations
- D. Tours, demonstrations and/or presentations
- E. Awards ceremony

III. Acquire judges, proctors, presenters, demonstrators, facilitator and tour guides

- A. Faculty judges – ONE (1) per division recommended (judge could proctor another division)
- B. Industry judges - ONE (1) per division recommended (judge could proctor another division)
- C. Faculty or Student proctors – ONE (1) per division recommended with 1 additional to fill in while a proctor takes a break
- D. Alternate judges and proctors - some one always gets sick or has to cancel
- E. Faculty presenter(s) - ONE (1) 60 minute presentation on animation, solid modeling, robotics, etc.
- F. Industry presenter(s) - ONE (1) 60 minute presentation on their products, employment opportunities, training and new technologies
- G. Teacher meeting facilitator – ONE (1) departmental member or administrator or a teachers from your region to run the meeting so the regional director can check for problems in testing rooms
- H. Faculty or Student tour guide(s) – ONE or TWO depending on number of participants to showcase college programs and facilities

IV. Procure prizes (1st place trophies will be provided by IDEA for each division)

- A. School book store – hats, t-shirts, posters, promotional items
- B. Vendors – textbooks, drafting tools, software and equipment
- C. Industry donations – any of the above plus gift certificates
- D. Scholarships – tuition or flat amount

V. Reserve rooms for competition

- A. One room for registration and welcoming contestants and teachers
- B. One to three rooms for board drawing divisions (depends on number of contestants)
- C. One to three rooms for CAD drawing divisions (depends on number of contestants)
- D. One room for teacher meeting (distribute answer packets, state competition packets, articulation/dual credit and college program information and to share what they are doing in their programs)
- E. One for luncheon or arrange for space in school cafeteria
- F. One for judging of hand drawings
- G. One for judging of CAD drawings if files are printed or plotted
- H. One for afternoon presentations
- I. One for awards ceremony

VI. Two or three weeks before the day of the competition

- A. Create directional signs for entrances
- B. Arrange for early morning refreshments for contestants, teachers and helpers
- C. Arrange for refreshments for teacher meeting
- D. Check luncheon arrangements – prepare meal ticket if necessary
- E. Check availability and sizes of drawing sheets for hand drawing competition
- F. Check printing/plotting capabilities, paper sizes available and location of extra print cartridges or plotting pens
- G. Check shipment of 1st place plaques for errors and/or defects (can be replaced with two weeks notice)
- H. Check registration forms as they are received from teachers as some teachers have sent all copies of forms with checks to Regional Directors in the past
- I. Check number of entries received from teachers with list received from Competition Director and report discrepancies immediately to Competition Director
- J. Check number of Teacher & Student Certificates with list received from Competition Director – extra Teacher & Student Certificates will be included in the package for misspellings or substitutes
- K. Duplicate Regional Competition Problems (provided by IDEA) – one for each student registered plus one for each teacher plus a couple extras just in case someone's registration gets mishandled – NOTE: students and teachers may keep competition problems but NOT the WRITTEN TEST. Please collect the WRITTEN TEST and save for next year's competition or until replaced
- L. Duplicate State Competition Packets for winners (provided by IDEA) – one packet per teacher is sufficient
- M. Duplicate Drawing Solutions Packets (provided by IDEA) – one packet per teacher is sufficient – DO NOT DISTRIBUTE WRITTEN TEST OR TEST KEY
- N. Assemble teacher packet – copy of their original registration form with student registration numbers, teacher's certificate, all student certificates, problems and solutions plus college/department information
- O. Assemble student packets – registration form and appropriate drawing scoring sheet
- P. Meet with proctors and judges to review schedule, testing and evaluation process - schedule proctors to be in testing rooms before students arrive to setup hand drawing equipment or select CAD workstation – IMPORTANT - have proctors do a roll call of contestants to make sure they are in the right place before starting the competition
- Q. Verify college personnel availability for welcoming session
- R. Verify working status of CAD workstations and software – DAY BEFORE is best

VII. Day of Competition

- A. Post competition directional signs from entrances
- B. Setup registration table – verify number of entries, identify any substitutions and handout teacher packet
- C. Distribute problems and student packets to testing rooms – proctor should be in room
- D. Welcome and introduce college/department personnel
- E. Review competition and day's schedule – highlight afternoon programs
- F. Meet with teachers during competition to welcome them and see who chaperones their students – make sure teacher packets have been distributed
- G. Check in briefly with each testing room proctor – we used walkie-talkies at the state competition this past year – worked very well
- H. Monitor collection of competition drawings, scoring sheets and registration forms at the end of each division competition.
- I. Meet with judges over lunch to review process
- J. Check in with judges to determine time of completion
- K. Check in with presenters to determine degree of participation and appropriateness of presentation
- L. Set up for awards ceremony – seals, plaques & prizes – DOUBLE CHECK WINNERS SCORES
- M. Conduct awards ceremony – remind 1st & 2nd place winners that they must register before competing at the State Competition

Regional Awards Distribution Chart

(As of 2009)

# of Entrants/Division	First Place	Second Place	Third Place
0-5	1	0	0
6-10	1	1	0
11-15	1	1	1
16-20	1	1	2
21-25	1	2	2
26-30	2	2	2
31-35	2	2	3
36-40	2	3	3
41-45	3	3	3
46-50	3	3	4
51-55	3	4	4
56-60	4	4	4
61-65	4	4	5
66-70	4	5	5
71-75	5	5	5
76-80	5	5	6
81-85	5	6	6
86-90	6	6	6

Reminder: Only 1st & 2nd place winners qualify for the state competition.

IDEA Annual Drafting/CAD Competition 2009/2010

Timetable for the 2010 Competition



February 6th, 2010 - Regional Registration deadline;

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

Attn: Howard Miller
IDEA Financial Director
c/o 1137 Pine Street
Batavia, IL 60510

NOTE: Send by Registered Mail if concerned about deadline.

HOWARD.MILLER@bps101.net

2. E-mail registration form (pages 8 & 9 of this document) to:

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 13th

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

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 6th **6. IDEA Regional contest at your Local Community College.**

March 13th **7. Results from your regional competition sites need to be e-mailed to IDEA@Oakton.edu by 12:00 p.m.**

March 14th **8. Snow date if needed**

March 28th **9. Registration forms for State Competition need to be emailed by 12:00 p.m.**

IDEA@Oakton.edu

April 1st **10. E-mail the final counts of each division to Illinois State University in preparation for the State Competition**

April 18th **11. IDEA State Competition at ISU in Normal, IL.**

Rules and Regulations

33nd 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 1st 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 6th 2010; Regional Competition is March 6th, 2010.
11. State entry deadline – Postmarked by Monday, March 30, 2010; State Competition is April 18th 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. **Solids CAD:** Competitors will model objects within a designated time period. Entrants will calculate volume and distance checks of the objects modeled. A one-hour time limit will be strictly enforced.

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.

S. 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.

IDEA Regional Drafting/CAD Competition 2010

March 5, 2010

(The following should be filled out by the student at the regional competition site)

Registration No. _____

Student Name: _____

Street Address: _____

City & Zip Code: _____

Email address: _____

Home Telephone: (_____) _____ - _____

Circle Year in School: 9th Grade 10th Grade 11th Grade 12th Grade

Name of High School: _____

Name of Instructor: _____

Contest Division (Check One)

Introductory Board _____

Introductory CAD _____

Machine Board _____

Machine CAD _____

Architectural Board _____

Architectural CAD 2D _____ 3D _____

Solids CAD _____

Please leave this form with the Competition Proctor.

Regional Competition Winners Form

33nd IDEA Annual Drafting/CAD Competition 2010

Depending about how many entries you have in each division, will determine the number of winners you will be able to award for each division. Please consult the [Regional Award Distribution Chart](#) on how many 1st, 2nd, and 3rd place winners you have in each division. At your Regional Site you may Award 1st, 2nd, and 3rd places, but for this form I am only concerned about students who will be advancing to State Competition, hence only 1st and 2nd place winners. You may have to add additional rows in a division to fill out this form correctly.

Please use **this FORM** when reporting winners to the State Competition Director.

E-mail this form as an **attachment** to Joe Cirone & Al Rosen, idea@oakton.edu. The State Competition Directors will cut and paste rows from this form to make additional state forms, so it is necessary that you use this form.

Regional Director's Name: _____

Regional Site #: _____

Regional Site Name: _____

Division	Place	First Name	Last Name	Teacher 's Name	School
Intro. Bd.	1 st				
Intro. Bd.	1 st				
Intro. Bd.	2 nd				
Intro. Bd.	2 nd				
Intro. CAD	1 st				
Intro. CAD	1 st				
Intro. CAD	2 nd				
Intro. CAD	2 nd				
Mach. Bd.	1 st				
Mach. Bd.	1 st				
Mach. Bd.	2 nd				
Mach. Bd.	2 nd				
Mach. CAD	1 st				
Mach. CAD	1 st				
Mach. CAD	2 nd				
Mach. CAD	2 nd				
Arch. Bd.	1 st				
Arch. Bd.	1 st				
Arch. Bd.	2 nd				
Arch. Bd.	2 nd				
2D Arch. CAD	1 st				
2D Arch. CAD	1 st				
2D Arch. CAD	2 nd				
2D Arch. CAD	2 nd				
3D Arch. CAD	1 st				
3D Arch. CAD	1 st				
3D Arch. CAD	2 nd				
3D Arch. CAD	2 nd				
Solids CAD	1 st				
Solids CAD	1 st				
Solids CAD	2 nd				
Solids CAD	2 nd				

