

# 2011MCM/ICM报名流程 和参赛系统使用

哈尔滨工程大学 理学院 朱磊

# 美赛报名和参赛系统介绍

- 1. 如何报名（简单了解）
- 2. 参赛系统使用（仔细注意）
- 网址 [www.comap.com](http://www.comap.com)

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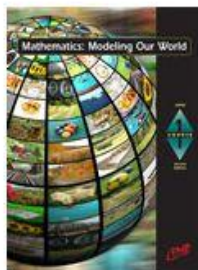
**COMAP**, the Consortium for Mathematics and its Applications, is an award-winning non-profit organization whose mission is to improve mathematics education for students of all ages. Since 1980, COMAP has worked with teachers, students, and business people to create learning environments in which mathematics is used to investigate and model real issues in our world.

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## Featured Products

### Mathematics: Modeling Our World (MMOW) Course 1



**New!** Based on feedback from users of the first edition, COMAP has completed a major revision of Course 1, now available on CD-ROM.

- Some units are completely rewritten (i.e., Pick a Winner and Landsat, which is now titled Scene from Above). Other units are streamlined while retaining the thematic, modeling approach.
- Most units are shorter. The revised

Course 1 has a total of 57 Activities— a 39% reduction from first edition's 93.

- Each Activity and Individual Work has a clear statement of purpose in the student edition and in the teacher materials.
- Lesson structure is more consistent than in the first edition from unit to unit.
- Many activities are shorter than in first edition; they are designed for completion in one 45-minute class period.
- Individual Work offers more mathematical practice problems.
- Both quantity of reading and reading level are reduced.
- FYI, Take Note, and Modeling Note features call attention to key facts.

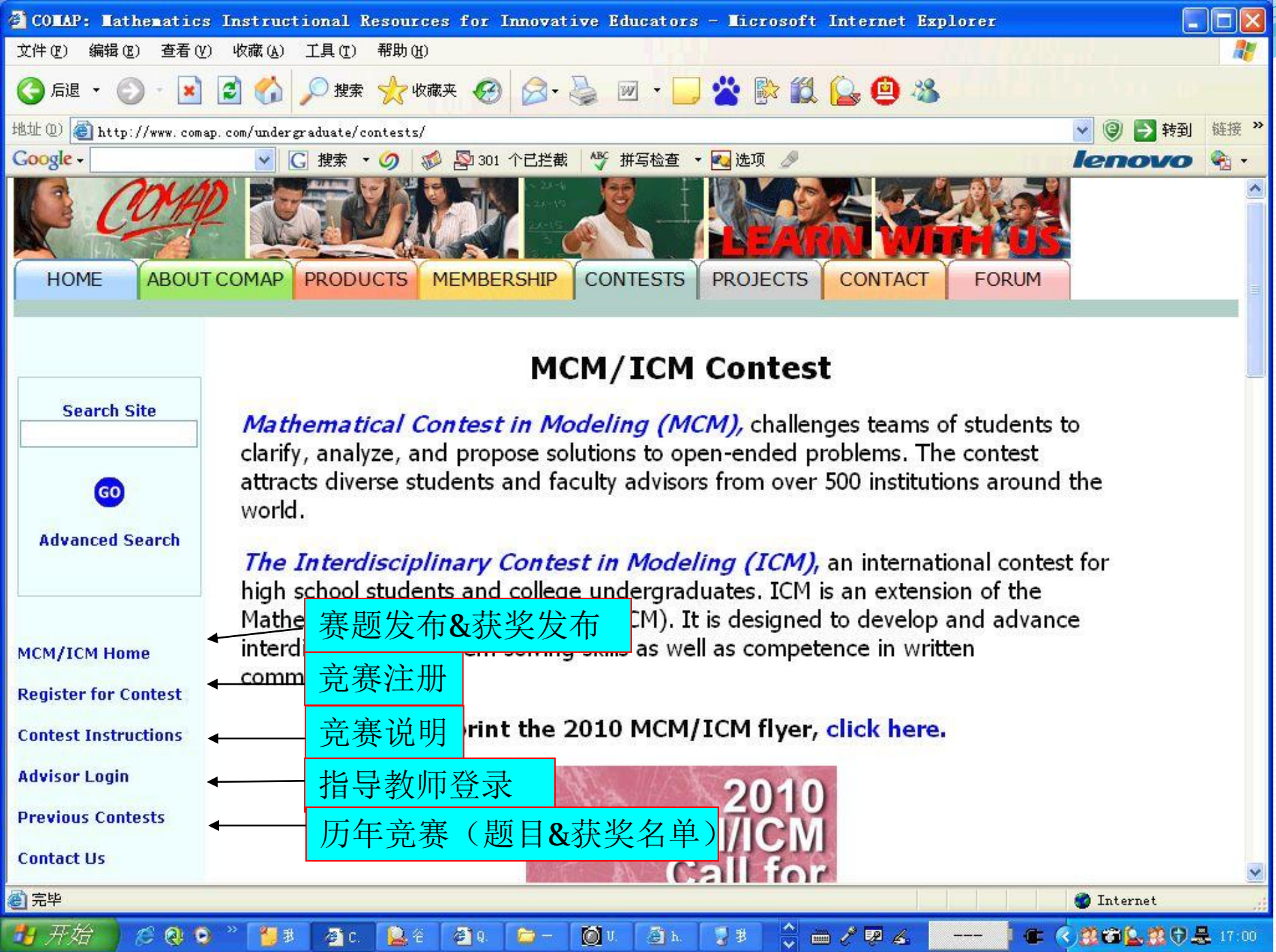
## Site Updates

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► **Now available: The 2009 HiMCM CD-ROM**

► **The 2009 High School Mathematical Contest in Modeling (HiMCM) results are now available**

► **UMAP Journal 30.4 is now available for download**





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MCM: The Mathematical Contest in Modeling  
ICM: The Interdisciplinary Contest in Modeling

## Online Registration

Use this online registration system to register teams for MCM (and ICM) 2013. Any team who wishes to participate in the contest must register via this online system no later than 2pm EST on Thursday January 31, 2013. Registration should be done by the team's advisor.

If you are a team advisor who has already registered a team for MCM 2013 and you would like to register an additional team, go to [Advisor Login](#) and enter the email address and password that you used when you registered your first team. Once you've logged in to the system you will have an opportunity to register a new team.

If you are a team advisor and you have not previously registered a team for this year's MCM (registration in previous years does not count), enter your email address in the box below and click on the **Continue Registration** button.

Important: There is a \$ 100 registration fee **for each team** to participate in MCM (and ICM) this year, which you will need to pay with a credit card during this online signup process. Please have your credit card ready when you begin the registration process.

**For an additional \$100 fee per team, you can receive a Judges Commentary written specifically about your team's paper. (Please note this option is not required.)**

Email Address:

Continue Registration

注册参赛队

你的邮箱地址当做  
注册名 (id)

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MCM: The Mathematical Contest in Modeling

## Online Registration

You are at step 2 of 6 steps:

1. Enter Advisor Email Address
- ➔ 2. Enter Advisor Information
3. Confirm Advisor Information
4. Agree to Terms and Contest Instructions
5. Process Payment
6. Receive Team Control Number

You must complete all 6 steps in order to register.

Please enter the following information about yourself; click the **Submit** button at the bottom of the screen to continue.

Advisor  
First Name:  Middle:   
Advisor  
Last Name:   
Institution:   
Institution  
Type: ☒ 4 year ☐ 2 year ☐ High School  
Department:   
Address 1:   
Address 2:   
City:   
State:  Postal Code:   
Country:    
Phone:   
Fax:   
Advisor  
Home Phone:   
Password:

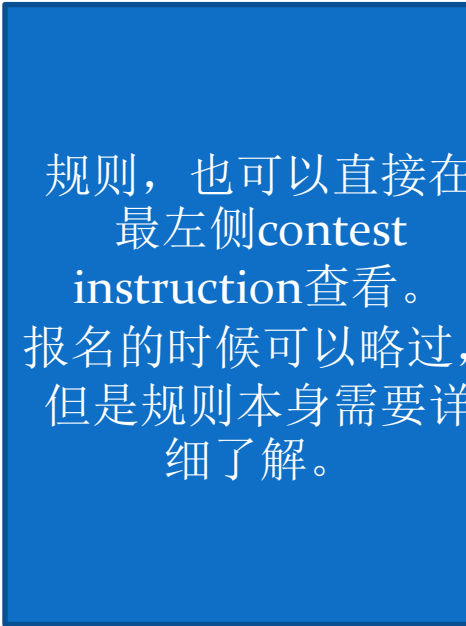
Choose a password that you will use to access the registration system. You will need to use this password, together with the email address you entered earlier, to login in or to enter and update your team's information throughout the contest registration period, and to print out your team's control sheet and summary sheet when you submit your team's solutions. **Note use only Letters and Numbers with no spaces.**

Confirm  
Password:

Re-enter your password above.

Submit

- 1.填写指导教师学校相关信息，不能填错，特别是学校名称等（mcm取消了学校参赛数量限制）。
- 2.密码是用来登录竞赛系统的，后面会提到。





## Online Registration

### You are at step 5 of 6 steps:

1. Enter Advisor Email Address
2. Enter Advisor Information
3. Confirm Advisor Information
4. Agree to Terms and Contest Instructions

### 5. Process Payment

6. Receive Team Control Number

### You must complete all 6 steps in order to register.

There is a \$100 fee per team for participating in MCM 2012, payable via credit card on this secure form. Please enter your credit card information below, and click **Pay Now**. Our system will process your payment immediately (it may take a few seconds), and once it is approved, you'll receive your team's control number. You will also be able to print a receipt for your records.

#### Judges Commentary

For an additional \$100 fee per team you can now receive a Judges Commentary written specifically about your teams paper.  
(Choose Yes below for a Judges Commentary or Choose No if you would not like a Judges Commentary.)

☐ No ☐ Yes I would like to receive a Judges Commentary about my teams paper. Please charge my credit card the additional \$100 fee for a total charge of \$200.

Card Type: ☐ Visa ☐ Mastercard

Expiration:

Card Number:

Name on Card:

CCV:

Billing Address:

City:

State:  Postal Code:

Country:

Pay Now

Cancel

If you click **Cancel**, the information you have entered will be lost and you will need to start the registration process over again if you decide to register later.

信用卡付款界面，你必须有一张  
的visa或者MasterCard卡。  
红字部分是说每组\$100,如果你想  
家评语的话，可以另外多给\$100  
家会专门给你组一个评语（通常  
有outstanding有），所以切记  
定选择NO，否则你就话\$200了

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## You must complete all 6 steps in order to register.

There is a \$100 fee per team for participating in MCM 2012, payable via credit card on this secure form. Please enter your credit card information below, and click **Pay Now**. Our system will process your payment immediately (it may take a few seconds), and once it is approved, you'll receive your team's control number. You will also be able to print a receipt for your records.

### Judges Commentary

For an additional \$100 fee per team you can now receive a Judges Commentary written specifically about your team's paper.  
(Choose Yes below for a Judges Commentary or Choose No if you would not like a Judges Commentary.)

I would like to receive a Judges Commentary about my team's paper. Please charge my credit card the additional \$100 fee for a total charge of \$200.

Card Type: ☐  Visa ☐  Mastercard

Expiration:

Card Number:

Name on Card:

CCV:

Billing Address:

City:

State:  Postal Code:

Country:

If you click **Cancel**, the information you have entered will be lost and you will need to start the registration process over again if you decide to register later.

放大点。

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## You must complete all 6 steps in order to register.

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### Judges Commentary

For an additional \$100 fee per team you can now receive a Judges Commentary written specifically about your team's paper.  
(Choose Yes below for a Judges Commentary or Choose No if you would not like a Judges Commentary.)

☐ No ☒ I would like to receive a Judges Commentary about my team's paper. Please charge my credit card the additional \$100 fee for a total charge of \$200.

Card Type: ☒ Visa ☐ Mastercard

Expiration: Feb 2012

Card Number: 5123 [REDACTED]

Name on Card: zhu lei

CCV: 386

Billing Address: 145-11# nantong street

City: harbin

State: heilongjiang Postal Code: 150001

Country: P.R.China

If you click **Cancel**, the information you have entered will be lost and you will need to start the registration process over again if you decide to register later.

国际通行规则，信用卡  
需要密码的，所以  
个人信息不要泄露。  
(所谓的识别卡)  
千万注意，expiration  
绝对不能错



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MCM: The Mathematical Contest in Modeling

## MCM 2012 Registration

Team Control Number: **16830**

Advisor Email Address: dongyuji@hrbeu.edu.cn

Password: 82519384

Congratulations, you have successfully registered a team for MCM 2012. Your team's control number is above, along with the email address and password that you will need to login to the online MCM registration system to enter your team member names, and to print your team's control sheet and summary sheet which you will need when submitting your team's solution paper.

Please [print this page](#) and keep it in a safe place; you will need this information in order to compete in MCM 2012.

If you would like a receipt showing your credit card transaction, [click here](#)

**Important:** Your team is now registered, but before your team can compete in the contest you must complete several additional online steps, such as entering the names of your team members. You can begin that process now by [clicking here](#), or you can return later to the **Advisor Login** link on the left side of the page.

参赛队号，参赛队  
识码。  
也就是说100刀换的  
个。

信用卡收据，打  
收据界面

https://www.comap.com/undergraduate/contests/mcm/register-receipt.php

MCM: The Mathema... MCM: The Mathe... x

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页面(P) 安全(S) 工具(O) ?

**COMAP, Inc.**  
**175 Middlesex Turnpike, Suite 3B**  
**Bedford, MA 01730 USA**  
**Phone: (781) 862-7878**  
**Fax: (781) 863-1202**  
**Email: mcm@comap.com**



Print this receipt

**Thank you for your order.**

This is your receipt.  
Your order number is **MCM2012-24328**, placed on February 8 2012, 3:11 AM.

**Billed To:**

zhu lei  
145-11# nantong street  
harbin, heilongjiang 150001  
P.R.China

**Payment Method:**

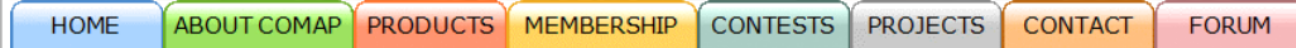
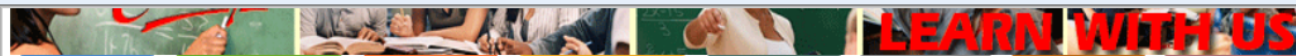
Mastercard  
\*\*\*\* \* 5837

Quantity	Description	Price
1	Registration for Team 16830 for MCM 2012	US \$100.00
		<b>TOTAL PAID:</b> US \$100.00

close this window



信用卡收据，所以务  
保存好，建议打印下  
然后再保存下html页  
以备不时之需。



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MCM: The Mathematical Contest in Modeling

Registered MCM 2012 Advisor

dong yunji  
harbin engineering university  
You have 1 team registered

[Edit Advisor or Institution Data](#)  
[Change Password](#)  
[Register Another Team](#)  
[Logout](#)

### Team 16830

**Problem:** *(unspecified)*

Team 16830 must complete each of the following steps to compete in MCM 2012. To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information  
(You must do step 1 before doing this step.)

The steps below are not available until the contest begins at 8pm EST on Thursday February 9, 2012. Please return to this page at that time, or when your team has completed its solution paper, to complete the remaining steps.

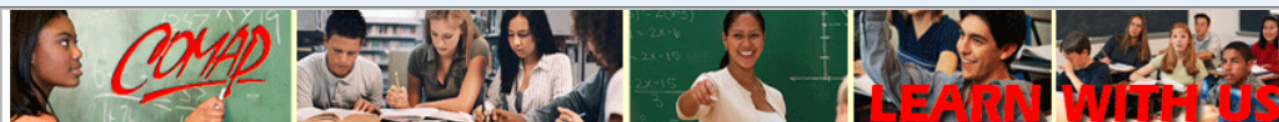
- 3 Choose Problem
- 4 Print Team Summary Sheet
- 5 Print Team Control Sheet
- 6 Submit Final Solution Paper

**Solution Received:** *(not yet received)*

**Final Designation:** *(unavailable)*

报名第二只队  
要重复刚才所  
要重复花钱界

参赛系统，后面  
介绍，学生信息  
这里填写。



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MCM: The Mathematical Contest in Modeling

## MCM 2012 Registration

Team Control Number: **16848**

Advisor Email Address: dongyuji@hrbeu.edu.cn

Password: 82519384

Congratulations, you have successfully registered a team for MCM 2012. Your team's control number is above, along with the email address and password that you will need to login to the online MCM registration system to enter your team member names, and to print your team's control sheet and summary sheet which you will need when submitting your team's solution paper.

Please [print this page](#) and keep it in a safe place; you will need this information in order to compete in MCM 2012.

If you would like a receipt showing your credit card transaction, [click here](#)

**Important:** Your team is now registered, but before your team can compete in the contest you must complete several additional online steps, such as entering the names of your team members. You can begin that process now by [clicking here](#), or you can return later to the **Advisor Login** link on the left side of the page.

第二只队伍（一个最多带两个队伍，超过两个，需要重新开始刚才所有环节。email开始）

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### Registered MCM 2012 Advisor

dong yunji  
harbin engineering university

[Edit Advisor or Institution Data](#)

[Change Password](#)

You have 2 teams registered, which is the maximum allowed  
for an advisor.

[Logout](#)

#### Team 16830

Problem: *(unspecified)*

Team 16830 must complete each of the following steps to compete in MCM 2012. To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information  
(You must do step 1 before doing this step.)

The steps below are not available until the contest begins at 8pm EST on Thursday February 9, 2012. Please return to this page at that time, or when your team has completed its solution paper, to complete the remaining steps.

- 3 Choose Problem
- 4 Print Team Summary Sheet
- 5 Print Team Control Sheet
- 6 Submit Final Solution Paper

**Solution Received:** *(not yet received)*

**Final Designation:**  
*(unavailable)*

#### Team 16848

Problem: *(unspecified)*

Team 16848 must complete each of the following steps to compete in MCM 2012. To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information  
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- 3 Choose Problem
- 4 Print Team Summary Sheet
- 5 Print Team Control Sheet
- 6 Submit Final Solution Paper

**Solution Received:** *(not yet received)*

**Final Designation:**  
*(unavailable)*

两支队伍都报完了  
继续报别的队伍，  
换email地址。所  
超过20个，是个巨  
作量。。。非常  
烦。。

## 2.美赛竞赛系统，登录，使用， ，登记信息等

- 1. 美赛的证书姓名是和竞赛系统的姓名登记一样的。
- 2. 证书单位是和竞赛系统信息一致的。
- 3. 竞赛前就需要登记好个人信息。
- 4. 竞赛时需要完成相应步骤
- 5. 竞赛后需要email提交和submit确认。
- 请务必注意各项！！

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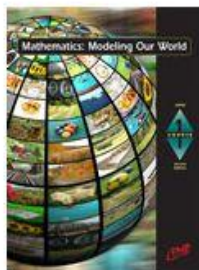
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## Featured Products

### Mathematics: Modeling Our World (MMOW) Course 1



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Course 1 has a total of 57 Activities— a 39% reduction from first edition's 93.

- Each Activity and Individual Work has a clear statement of purpose in the student edition and in the teacher materials.
- Lesson structure is more consistent than in the first edition from unit to unit.
- Many activities are shorter than in first edition; they are designed for completion in one 45-minute class period.
- Individual Work offers more mathematical practice problems.
- Both quantity of reading and reading level are reduced.
- FYI, Take Note, and Modeling Note features call attention to key facts.

## Site Updates

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► **Now available: The 2009 HiMCM CD-ROM**

► **The 2009 High School Mathematical Contest in Modeling (HiMCM) results are now available**

► **UMAP Journal 30.4 is now available for download**

COMAP: Mathematics Instructional Resources for Innovative Educators - Microsoft Internet Explorer

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后退 前进 刷新 搜索 收藏夹 301 个已拦截 拼写检查 选项

地址 http://www.comap.com/undergraduate/contests/ 转到 链接

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## MCM/ICM Contest

**Mathematical Contest in Modeling (MCM)**, challenges teams of students to clarify, analyze, and propose solutions to open-ended problems. The contest attracts diverse students and faculty advisors from over 500 institutions around the world.

**The Interdisciplinary Contest in Modeling (ICM)**, an international contest for high school students and college undergraduates. ICM is an extension of the MCM. It is designed to develop and advance interdisciplinary problem-solving skills as well as competence in written communication.

print the 2010 MCM/ICM flyer, [click here](#).

2010 MCM/ICM Call for

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竞赛注册

竞赛说明

指导教师登录

历年竞赛 (题目&获奖名单)

完毕

Internet

开始

17:00



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## MCM: The Mathematical Contest in Modeling

If you have registered a team for MCM 2010, login here to access and update all information about your registration.

**Email Address:**

**Password:**

Login

Forgot your password? No problem. [Click here](#)

指导教师用户名密码登录

(赛前, 我会将各组对应的用户名密码公布给大家)

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## Registered MCM 2010 Advisor

dong yunji

harbin engineering university

You have 2 teams registered, which is the maximum allowed for an advisor.

[Edit Advisor or Institution Data](#)

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编辑信息

### Team 6372 ← Problem: (unspecified)

Team 6372 must complete each of the following steps to compete in MCM 2010. To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information  
(You must do step 1 before doing this step.)

The steps below are not available until the contest begins at 8pm EST on Thursday February 18, 2010. Please return to this page at that time, or when your team has completed its solution paper, to complete the remaining steps.

- 3 Choose Problem
- 4 Print Team Summary Sheet
- 5 Print Team Control Sheet
- 6 Submit Final Solution Paper

**Solution Received:** (not yet received) **Final Designation:** (unavailable)

### Team 6373 ← Problem: (unspecified)

Team 6373 must complete each of the following steps to compete in MCM 2010. To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information

每个指导教师id  
最多可以指导  
2个参赛队

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## MCM: The Mathematical Contest in Modeling

Make whatever changes you want to the following information about yourself. Click **Submit Changes** at the bottom of the screen to submit your changes, and click **Done With Changes** when you are finished.

Advisor First Name:	<input type="text" value="dong"/>	Middle:	<input type="text"/>
Advisor Last Name:	<input type="text" value="yunji"/>		
Institution:	<input type="text" value="harbin engineering university"/>		
Institution Type:	<input checked="" type="radio"/> 4 year <input type="radio"/> 2 year <input checked="" type="radio"/> High School		
Department:	<input type="text" value="College of Science"/>		
Address 1:	<input type="text" value="145-11# nantong street"/>		
Address 2:	<input type="text"/>		
City:	<input type="text" value="harbin"/>		
State:	<input type="text" value="heilongjiang"/>	Postal Code:	<input type="text" value="150001"/>
Country:	<input type="text" value="P.R. China"/>		
Phone:	<input type="text" value="(86)0451-82519384"/>		
Fax:	<input type="text"/>		
Advisor:	<input type="text"/>		

基本不用改动，除非  
明显拼写错误

(这个是学校交报名  
费时已经填写好的-  
指导教师姓名不认识  
也不要改!)

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## Team 6372 Problem: *(unspecified)*

Team 6372 must complete each of the following steps to compete in MCM 2010. To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information  
(You must do step 1 before doing this step.)

The steps below are not available until the contest begins at 8pm EST on Thursday February 18, 2010. Please return to this page at that time, or when your team has completed its solution paper, to complete the remaining steps.

- 3 Choose Problem
- 4 Print Team Summary Sheet
- 5 Print Team Control Sheet
- 6 Submit Final Solution Paper

**Solution Received:** *(not yet received)*      **Final Designation:** *(unavailable)*

## Team 6373 Problem: *(unspecified)*

Team 6373 must complete each of the following steps to compete in MCM 2010. To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information  
(You must do step 1 before doing this step.)

The steps below are not available until the contest begins at 8pm EST on Thursday February 18, 2010. Please return to this page at that time, or when your team has completed its solution paper, to complete the remaining steps.

注意前两项（队员信息和确认）最好在竞赛前就完成！！！！

GO

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## Registered MCM 2010 Advisor

dong yunji

harbin engineering university

You have 2 teams registered, which is the maximum  
allowed for an advisor.

[Edit Advisor or Institution Data](#)

[Change Password](#)

[Logout](#)

以下内容  
需要开赛  
后才可改  
动

### Team 6372

**Problem:** *(unspecified)*

Team 6372 must complete each of the following steps to compete in MCM 2010.  
To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information  
(You must do step 1 before doing this step.)

The steps below are not available until the contest begins at 8pm EST on  
Thursday February 18, 2010. Please return to this page at that time, or when  
your team has completed its solution paper, to complete the remaining steps.

- 3 Choose Problem
- 4 Print Team Summary Sheet
- 5 Print Team Control Sheet
- 6 Submit Final Solution Paper

**Solution Received:** *(not yet received)*      **Final Designation:** *(unavailable)*

### Team 6373

**Problem:** *(unspecified)*

Team 6373 must complete each of the following steps to compete in MCM 2010.  
To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 Verify Certificate Information

队员信  
息3人

确认队  
员信息

选择题目a、  
b、c



Search Site

GO

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## MCM: The Mathematical Contest in Modeling

### Enter/Edit Names for Team 6372

[Add New Member](#)  
[Done Making Changes](#)

首次填写  
队员  
姓名

CM/ICM  
ome

register for  
010 Contest

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ome

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010 Contest

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## MCM: The Mathematical Contest in Modeling

### Add Member to Team 6372

First Name

Middle Last

Gender  
(optional)

xu

jiaqi

Add Member

Cancel



姓名填写，姓在前还是名在前，自己习惯决定。

男女  
F or M

## MCM: The Mathematical Contest in Modeling

### Enter/Edit Names for Team 6372

Name	Gender	
xu jiaqi	F	<a href="#">Edit</a> <a href="#">Delete</a>

[Add New Member](#)

[Done Making Changes](#)

完成一个  
人信息

添加新的成  
员（共三人）

谁在前没关系，竞  
赛成果不排序

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2010 Contest](#)[Contest Instructions](#)[Advisor Login](#)

## MCM: The Mathematical Contest in Modeling

### Enter/Edit Names for Team 6372

Name	Gender		
xu jiaqi	F	<a href="#">Edit</a>	<a href="#">Delete</a>
li xiaolin	F	<a href="#">Edit</a>	<a href="#">Delete</a>

[Add New Member](#)[Done Making Changes](#)



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完成一项  
前面有一个小勾

CM/ICM  
ome

Register for  
10 Contest

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## MCM: The Mathematical Contest in Modeling

### Registered MCM 2010 Advisor

dong yunji

harbin engineering university

You have 2 teams registered, which is the maximum allowed for an advisor.

[Edit Advisor or Institution Data](#)

[Change Password](#)

[Logout](#)

#### Team 6372

#### Problem: *(unspecified)*

Team 6372 must complete each of the following steps to compete in MCM 2010. To complete a step, click on it:

- 1 [Enter Team Member Names](#)
- 2 [Verify Certificate Information](#)

The steps below are not available until the contest begins at 8pm EST on Thursday February 18, 2010. Please return to this page at that time, or when your team has completed its solution paper, to complete the remaining steps.

- 3 Choose Problem
- 4 Print Team Summary Sheet
- 5 Print Team Control Sheet
- 6 Submit Final Solution Paper

**Solution Received:** **Final Designation:**

确认身份信息，要仔细

completion of the contest. The certificate will be printed with the names of the students and the name of the institution. These names will appear on the certificate exactly as they appear below - -- with exactly the same capitalization and punctuation, if any. Please check the spelling to verify that it is exactly as it should be, and if any changes are needed, make them by clicking **Make Changes** where appropriate.

When you are satisfied with the way the names will appear on the certificate, click the **Accept Values** button.

**Institution:** harbin engineering university [Make Changes](#)

**Team Member Names:** xu jiaqi  
li xiaolin [Make Changes](#)  
wang jinxuan

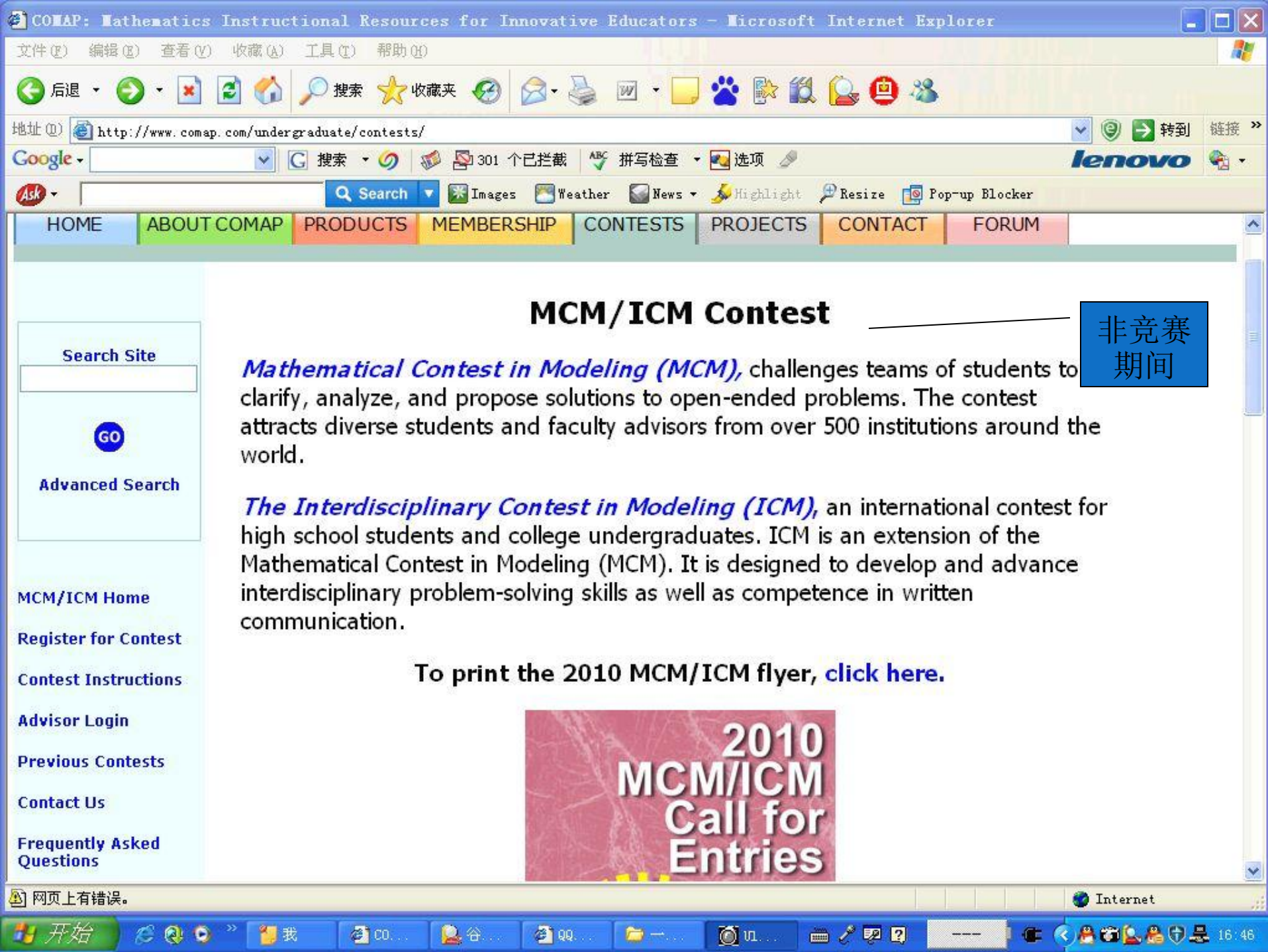
**Certificate will be mailed to advisor:** dong yunji  
harbin engineering university  
College of Science Department  
145-11# nantong street [Make Changes](#)  
harbin, heilongjiang 150001  
P.R.China

:

Accept Values

Cancel

教师姓名不用核对，其它要注意看





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## MCM: The Mathematical Contest in Modeling ICM: The Interdisciplinary Contest in Modeling

MCM (and ICM) 2010 have now started. Teams may now access the contest problems here:

[Contest Problems](#)

赛题公布  
点击进入

All teams must cease their work and turn their solution papers in to their advisor by 8pm EST on February 22, 2010 . Solutions must be received at COMAP on or before Friday March 5, 2010 .

Advisors should login using the [Advisor Login](#) link to complete the steps needed for preparing and submitting their teams' solutions.

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[Contest Instructions](#)

[Advisor Login](#)

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Internet

## IMPORTANT CHANGE TO CONTEST RULES FOR MCM/ICM 2010:

Teams (Student or Advisor) are now required to submit an electronic copy of their solution paper by email to [solutions@comap.com](mailto:solutions@comap.com). Your email MUST be received at COMAP by the submission deadline of 8:00 PM EST, February 22, 2010.

竞赛要求，  
结束前  
Email答  
案到此地  
址

### 2010 MCM Problems

#### PROBLEM A: The Sweet Spot

Explain the "sweet spot" on a baseball bat.

Every hitter knows that there is a spot on the fat part of a baseball bat where maximum power is transferred to the ball when hit. Why isn't this spot at the end of the bat? A simple explanation based on torque might seem to identify the end of the bat as the sweet spot, but this is known to be empirically incorrect. Develop a model that helps explain this empirical finding.

A题

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summary should provide a broad overview of the potential issues. It should provide an overview of your approach and describe situations when it is an appropriate tool and situations in which it is not an appropriate tool. The executive summary will be read by a chief of police and should include technical details appropriate to the intended audience.

B题

## 2010 ICM Problem

### PROBLEM C: The Great Pacific Ocean Garbage Patch

To view and print **problem C**, you will need to have the Adobe Acrobat Reader installed in your Web browser. Downloading and installing Acrobat is simple, safe, and only takes a few minutes.

[Download Acrobat Here](#)

Click the Title Below To View a PDF of Problem C  
[The Great Pacific Ocean Garbage Patch](#)

C题一般是一个pdf文件，下载后看到

C题

下载  
pdf阅  
读者

http://www.comap.com/undergraduate/contests/mcm/contests/2010/problems/ICM\_2010.pdf - Microsoft Internet Explorer

文件(F) 编辑 转到(O) 收藏(A) 帮助(H)

地址(O) http://www.comap.com/undergraduate/contests/mcm/contests/2010/problems/ICM\_2010.pdf

Google 搜索 301 个已拦截 拼写检查 选项

Search Images Weather News Highlight Resize Pop-up Blocker

1 / 12 80.1% 签名 查找

书签

- 2010 ICM Problem
- CountDensity 1999-2008
- Moore 2001
- Yamashita 2007

2010 ICM Problem

C题

### The Great Pacific Ocean Garbage Patch

Recently, there has been considerable news coverage of the "Great Pacific Ocean Garbage Patch."

See the following:

- <http://www.nytimes.com/2009/11/10/science/10patch.html?em>
- <http://www.sciencefriday.com/program/archives/200907314>
- <http://www.reuters.com/article/idUSTRE57R05E20090828>

Based on recent scientific expeditions into the Pacific Ocean Gyre (a convergence zone where debris is accumulating), a wide variety of technical and scientific problems associated with this debris mass are coming to light. While dumping waste into the ocean is not a new activity, the scientific community's realization that much of the debris (plastics, in particular) are accumulating in high densities over a large area of the Pacific Ocean is new. The scientific community also is learning that this debris creates many potential threats to marine ecology, and, therefore, to human well-being. Those who study this accumulation often describe it as plastic soup or confetti.

See: <http://news.nationalgeographic.com/news/2009/09/photogalleries/pacific-garbage-patch-pictures/>

This year's ICM problem uses interdisciplinary modeling to addresses the complex issues stemming from the presence and accumulation of ocean debris, in order to help researchers and ultimately government policy makers to understand the severity, range, and potential global impact of the situation.

As modeling advisors to the expedition, your job is to focus on *one* element of this debris problem, model

正在下载 (1.19 MB of 1.50 MB) : http://www.comap.com/undergraduate/contests/mcm/contests/2010/problems/ICM\_2010.pdf 未知区域



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## MCM: The Mathematical Contest in Modeling

Team Control Number: 6387  
Advisor: sun guangyi  
Institution: harbin engineering university

Problem Choice: -

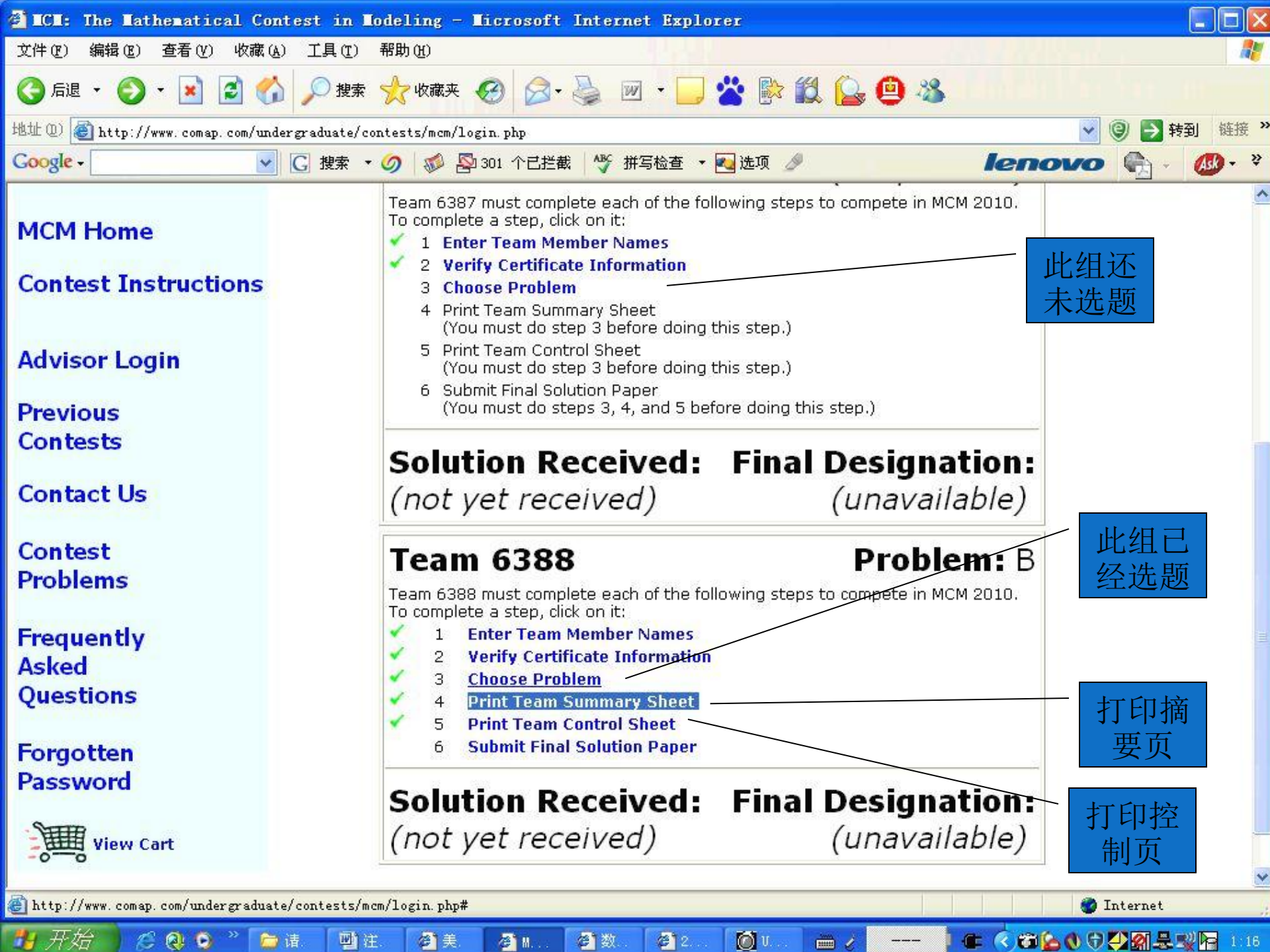
Submit A B C

MCM teams choose either problem A or problem B.  
ICM teams choose problem C.

Cancel

选题

此项为说明，无特别含义



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Team 6387 must complete each of the following steps to compete in MCM 2010.  
To complete a step, click on it:

- ✓ 1 [Enter Team Member Names](#)
- ✓ 2 [Verify Certificate Information](#)
- 3 [Choose Problem](#)
- 4 Print Team Summary Sheet  
(You must do step 3 before doing this step.)
- 5 Print Team Control Sheet  
(You must do step 3 before doing this step.)
- 6 Submit Final Solution Paper  
(You must do steps 3, 4, and 5 before doing this step.)

此组还  
未选题

**Solution Received:** **Final Designation:**  
(not yet received) (unavailable)

**Team 6388**

**Problem: B**

此组已  
经选题

Team 6388 must complete each of the following steps to compete in MCM 2010.  
To complete a step, click on it:

- ✓ 1 [Enter Team Member Names](#)
- ✓ 2 [Verify Certificate Information](#)
- ✓ 3 [Choose Problem](#)
- ✓ 4 [Print Team Summary Sheet](#)
- ✓ 5 [Print Team Control Sheet](#)
- 6 [Submit Final Solution Paper](#)

打印摘  
要页

**Solution Received:** **Final Designation:**  
(not yet received) (unavailable)

打印控  
制页



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cut and tape the summary text onto the summary sheet, and use a photocopy machine to make two copies of it for sending in with your solution papers.

Alternately, you can print your word-processed summary directly onto the summary sheet by sending it through your printer again; if you do this, be sure to leave an appropriate amount of space at the top so that your summary text does not overlap with the summary sheet text.

DO NOT under any circumstances submit a summary sheet that has tape, staples, glue, or paste on it.

To print your team's summary sheet, click **Display Summary Sheet** to the right, and use your browser's **Print** button to send it to your printer.

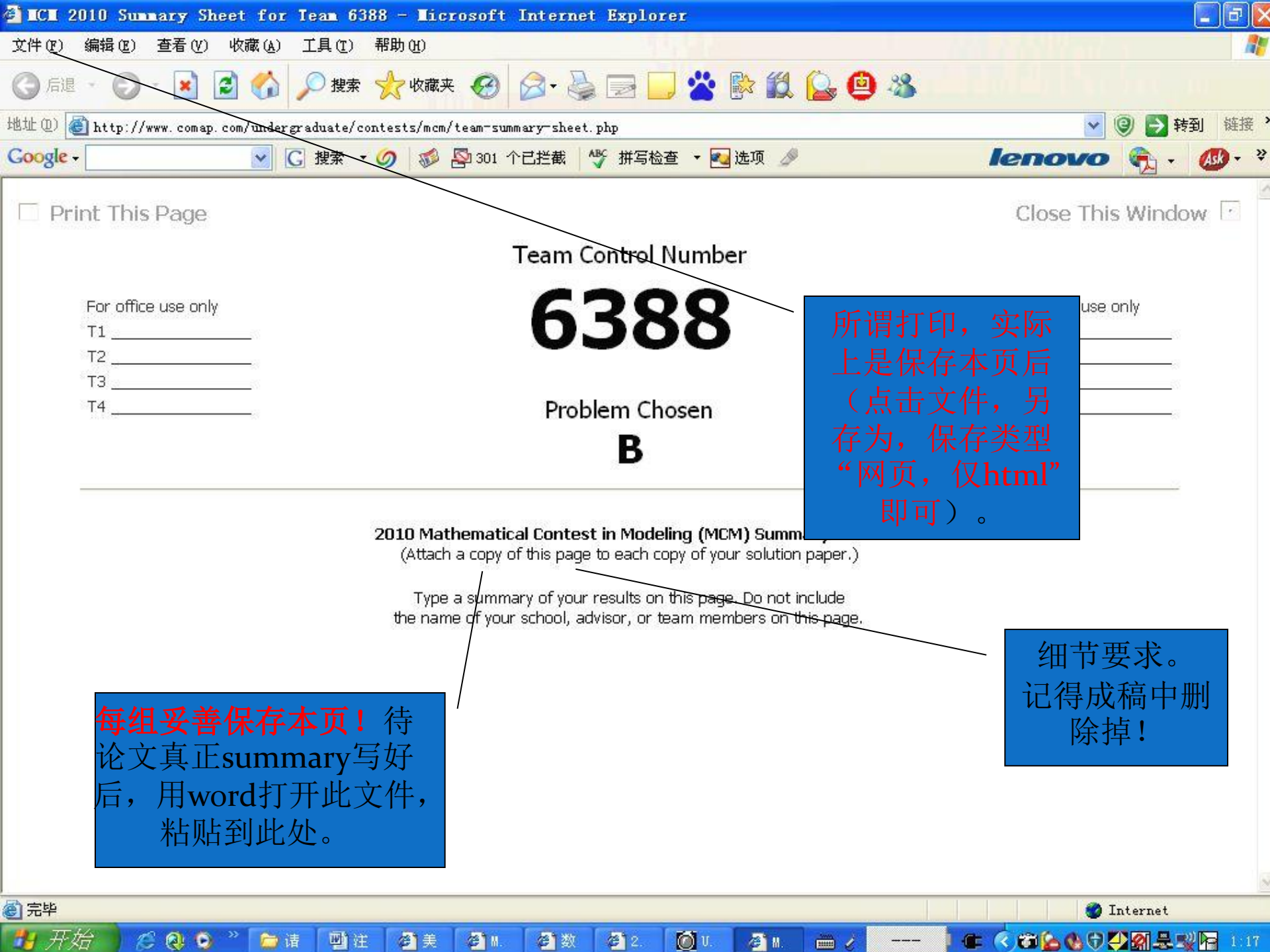
When you have printed your summary sheet, click **Done With Summary Sheet** to the right.

[Display Summary Sheet](#)

[Done With Summary Sheet](#)

点击4后出现本页，继续点击此处

完成本项工作后点



2010 Summary Sheet for Team 6388 - Microsoft Internet Explorer

文件(F) 编辑(E) 查看(V) 收藏(A) 工具(T) 帮助(H)

地址(Q) <http://www.comap.com/undergraduate/contests/mcm/team-summary-sheet.php>

Google 搜索 301 个已拦截 拼写检查 选项

Print This Page Close This Window

Team Control Number

6388

Problem Chosen

B

For office use only

T1 \_\_\_\_\_

T2 \_\_\_\_\_

T3 \_\_\_\_\_

T4 \_\_\_\_\_

2010 Mathematical Contest in Modeling (MCM) Summary

(Attach a copy of this page to each copy of your solution paper.)

Type a summary of your results on this page. Do not include the name of your school, advisor, or team members on this page.

所谓打印，实际上是保存本页后（点击文件，另存为，保存类型“网页，仅html”即可）。

每组妥善保存本页！待论文真正summary写好后，用word打开此文件，粘贴到此处。

细节要求。记得成稿中删除掉！

完毕 Internet

开始 诸 注 美 M. 数 2. U. M. 1:17



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## MCM: The Mathematical Contest in Modeling

To prepare your team's solution for submission, print out one copy of your team's control sheet, and staple that copy to the top of one of your team's solution papers.

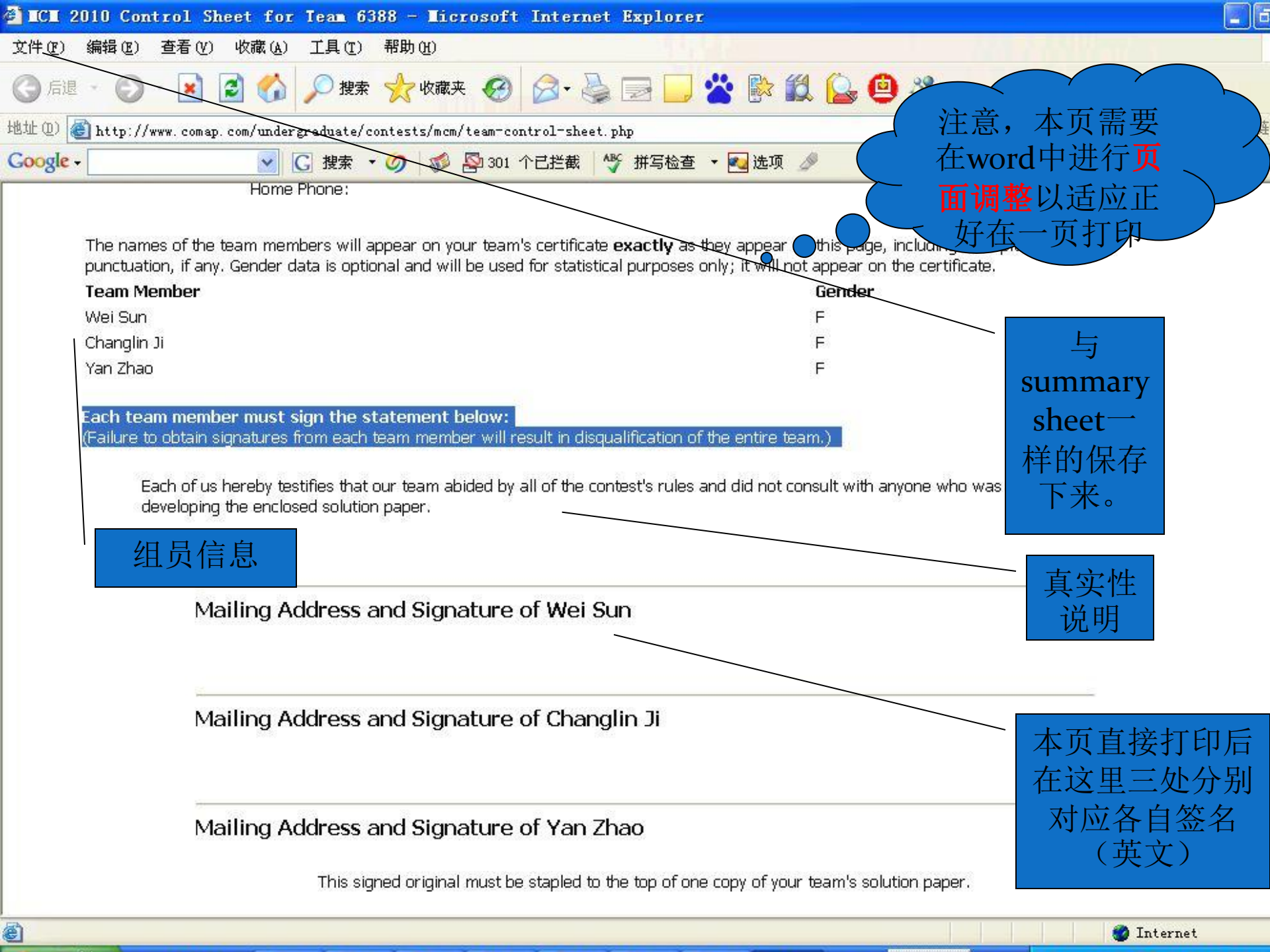
To print your team's control sheet, click **Display Control Sheet** to the right, and use your browser's **Print** button to send it to your printer.

When you have printed your control sheet, click **Done With Control Sheet** to the right.

[Display Control Sheet](#)

[Done With Control Sheet](#)

点击5后出现本页，继续点击此处



注意，本页需要在word中进行页面调整以适应正好在一页打印

与summary sheet一样的保存下来。

真实性说明

本页直接打印后在这里三处分别对应各自签名（英文）

组员信息

Mailing Address and Signature of Wei Sun

Mailing Address and Signature of Changlin Ji

Mailing Address and Signature of Yan Zhao

This signed original must be stapled to the top of one copy of your team's solution paper.

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- ✓ 2 Verify Certificate Information
- ✓ 3 Choose Problem
- ✓ 4 Print Team Summary Sheet
- ✓ 5 Print Team Control Sheet
- ✓ 6 Submit Final Solution Paper

**Solution Received:**  
February 26 2010,  
4:16 PM

**Final Designation:**  
(unavailable)

最后成绩在这里也显示

**Team 6477**

**Problem: A**

Congratulations! Team 6477 has completed all the steps for competing in MCM 2010. If you have not yet done so, don't forget to mail your solution packet to COMAP so that it arrives on or before Friday March 5, 2010.

If you find that you need to correct the data on your control sheet or summary sheet before you have mailed your solution, you can re-do any of the steps below by clicking on them. When you re-do a step, however, you will also need to re-do all the steps that come after it in the list.

- ✓ 1 Enter Team Member Names
- ✓ 2 Verify Certificate Information
- ✓ 3 Choose Problem
- ✓ 4 Print Team Summary Sheet
- ✓ 5 Print Team Control Sheet
- ✓ 6 Submit Final Solution Paper

此处为邮寄的打印版寄到美国的时间。

**Solution Received:**  
February 26 2010,

**Final Designation:**  
(unavailable)

不要忘了交题后点击最后一步确认

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single CD ROM and label it with contest, year, and team control numbers.

Example: Contest Year Control Numbers 2009 MCM/ICM  
10004, 10005

Mail all of the above in a single envelope to

**Note:** if you have multiple teams or a combination of MCM and ICM teams you may ship them all in one package to COMAP, Inc.

MCM Coordinator  
COMAP, Inc.

**175 Middlesex Turnpike, Suite 3B**  
**Bedford, MA 01730**  
**USA**

Your solution must arrive at COMAP on or before Friday March 5, 2010. You are responsible for making sure your solution arrives by then; COMAP will not accept solutions that arrive after Friday March 5, 2010.

When you have mailed your solution paper, click **Solution Submitted** below.

[Solution Submitted](#)

[Cancel](#)

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Email答案  
后记得点  
击确认最  
后一步

# 结语

- 细节决定成败，建议做一个表格，完成一步打个勾，放在醒目的地方，以防忘记也是一种激励。
- 祝大家成功！

- 2013工程美赛数模1群 70358835
- 2013工程美赛数模2群 91600516
- 哈工程数学建模全国赛 187687231