iGEM 2012
Teachers Workshop

Cambridge
28 July 2012
Schedule

9:30 AM   Registration / Breakfast
10:00 AM  Welcome
10:15 AM  Introductions
11:30 AM  Synthetic Biology / Parts
12:30 PM  Lunch
1:30 PM   Operations / iGEM Foundation
2:10 PM   Judging
2:30 PM   Assembly
3:00 PM   Break
3:30 PM   Divisions
4:00 PM   Discussion
5:00 PM   Reception
7:00 PM   End
Team Introductions

- Name
- Team Name
- Role on the Team
- iGEM Year (*how did you hear about iGEM?*)
- Composition of the Team
- Credits
- Funding
iGEM Operations
The Registry Help Page

New to iGEM and the Registry? You’ll want to head over to the Learn section first to get an introduction on synthetic biology based on standardized parts and the philosophy of iGEM and the Registry. We welcome suggestions via email (hq (at) igem . org) or on the forum. You can also look through the old help pages if you couldn’t find what you’re looking for.

learn!
- synthetic biology
- our philosophy
- the repository
- parts
- plasmid backbones
- standards
- assembly

get!
- register
- locating parts
- quality control
- distribution kit
- requesting parts

make!
- adding parts
- constructing parts

use!
- using parts

give!
- sending parts

share!
- share your experience

navigation & tools
- part main page
- experience page
- get this part page
- part tools
- more...

protocols
- 3A Assembly Kit
- transformation
- competent cells
- linearized plasmid backbones
- more...

resources
- faq
- glossary
- site map
- contact
Get Distribution

Locate your part

Check part availability

Check the QC

Use the part

Order stab from Registry

Share your experience!
Give... Shipping a Part

- Compatability
  - Must be compatible with RFC10 (Knight BioBrick Standard)
    - Restricted sites: EcoRI, XbaI, SpeI, PstI
    - Biobrick prefix and suffix are NOT part of the part

- Plasmid backbone
  - Must be in the Registry shipping plasmid backbone
    - pSB1C3

- Sequence analysis
  - Use the Registry sequence analysis tool
  - Link your analyses to your part for others to see

- Online shipping form

- Share your experience!
Deadlines

**iGEM 2012 Calendar of Events**

*Note: Dates in grey have not been finalized yet. Make sure to check the calendar periodically for any changes!*

**February / March**  
iGEM 2012 registration opens

**March 31st**  
iGEM 2012 registration closes; Team registration fee due

**April / May**  
DNA Distribution sent to teams

**July**  
Teachers Workshops

**July 15**  
Team project descriptions due

**September 3**  
Regional Jamboree attendance fee due

**September 3**  
Track selection due

Project abstracts due

Team rosters due

Safety questions due

<table>
<thead>
<tr>
<th>Europe</th>
<th>Asia</th>
<th>Latin America</th>
<th>North America-East</th>
<th>North America-West</th>
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<tbody>
<tr>
<td>Sep 25</td>
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<td>Sep 25</td>
<td>Oct 3</td>
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Project and part documentation due, including documentation for all annual criteria

BioBrick Part DNA due to the Registry

Judging form due

Wiki FREEZE at 11:59pm, EDT

**October 6-7**  
iGEM 2011 Regional Jamborees: Europe, Asia, Latin America

**October 13-14**  
iGEM 2011 Regional Jamborees: North America-East, North America-West

**November 2-5**  
iGEM 2012 World Championship Jamboree, MIT
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2012 Update

190 Collegiate
40 High School
15 Entrepreneurship
5 Regions
AlumniGEM: 10500 Alumni

210 Labs
8500 Physical Parts
18000 Total Parts
1400000 Parts Distributed

We Moved to the iGEM Foundation
### Saturday

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>Registration / Breakfast</td>
<td>Media Center</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Opening Ceremony</td>
<td>Media Center</td>
</tr>
<tr>
<td>9:20 AM</td>
<td>Travel to presentation rooms</td>
<td>Media Center, CMR, Blue and Gold Room</td>
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<tr>
<td>9:30 AM</td>
<td>NC School of Sci Math</td>
<td>Lethbridge Canada</td>
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<tr>
<td>10:00 AM</td>
<td>WarrenCentral WCC IN</td>
<td>Evansville Central</td>
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<tr>
<td>10:30 AM</td>
<td>Break (with snacks)</td>
<td>Heidelberg LSL</td>
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<tr>
<td>11:00 AM</td>
<td>CIDEB-UANL Mexico</td>
<td>Sharon Basically Acid</td>
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<td>11:30 AM</td>
<td>Dalton School NY</td>
<td>Saloniki Greece 12</td>
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<tr>
<td>12:00 PM</td>
<td>Lunch</td>
<td>SouthBend Mishawaka IN</td>
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<td>1:30 PM</td>
<td>Greenfield Central IN</td>
<td>Tyngsboro MA Tigers</td>
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<tr>
<td>2:00 PM</td>
<td>BVCAPS Research KS</td>
<td>BioscienceDragons AZ</td>
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<td>2:30 PM</td>
<td>IGEM from Above</td>
<td>PrepaTec Garza Sada Mx</td>
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<td>3:00 PM</td>
<td>Poster Reception (with snacks)</td>
<td>Hewitt-Trussville</td>
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<td>4:00 PM</td>
<td>Finalist Presentations (with 3 finalists)</td>
<td>CMR, Blue and Gold Room</td>
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<td>5:00 PM</td>
<td>Dinner</td>
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<td>6:00 PM</td>
<td>Awards Ceremony</td>
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<td>6:30 PM</td>
<td>End</td>
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**Diagram:**
- **JAMBOREE HUB:** iGEM HQ Table (Food, meals, snacks), Posters, Poster Reception
- **AUDITORIUM:** Opening Ceremony, Awards Ceremony
- **PRESENTATION ROOMS:** Blue and Gold Room, Media Center, Cougar Meeting Room (CMR)
- **IGEM FROM ABOVE!**
- **REGISTRATION**

**Key:**
- Food or Energy
- Health or Medicine
- Foundational Advance
- Environment
- Information Processing
- New Application
iGEM 2012 Entrepreneurship Division
16 teams are registered for 2012

Americas has these 11 teams
- Alberta-North-RBI_E
- Arizona_State_E
- BIOSINT_Mexico
- E-Wisconsin-Madison
- MIT_E
- Peru_BioE
- UANLe_Mexico
- UC_Davis_E
- UIUC_Illinois
- UMASS-LOWELL
- UTPreneur
- Waterloo-E

Asia has this 1 team
- Peking_E

Europe has these 4 teams
- Amplino
- LYON
- sentegen
- UCLondon
Tracks

- Business plans (8)
- Business models (1)
- Industry development
- Business and regulation
Alumni Association

- Projects
  - Posters to HS
  - Survey
  - Mentorship Program
  - Membership
  - Blog
  - Newsletter
  - Workshops

Launching 2012!
<table>
<thead>
<tr>
<th>Lab Name</th>
<th>University or Organization</th>
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<tbody>
<tr>
<td>Ajo-Franklin Lab</td>
<td>UC Berkeley</td>
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<tr>
<td>Akkaya Lab</td>
<td>Middle East Technical University</td>
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<tr>
<td>Arnold Lab</td>
<td>German Cancer Research Center</td>
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<td>BioFAB</td>
<td>Berkeley CA</td>
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<td>Burgos Lab</td>
<td>University of Granada</td>
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<td>Chandrasekaran Lab</td>
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<td>Emberly Lab</td>
<td>Simon Fraser University</td>
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<td>Filipe Lab</td>
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<td>Garcia-Rios Lab</td>
<td>Mount Ida</td>
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<td>Govantes Lab</td>
<td>Universidad Pablo de Olavide</td>
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Discussion

- Judging
- Sponsorship
  - Together vs regionals
  - Teams vs region
- Assembly
- Regional Council
“It was an amazing confidence builder.”

“I still think iGEM is the greatest educational tool biotechnology has ever seen.”

“The excitement builds up throughout the summer and is truly contagious.”

“I learned more in one summer of iGEM than in four years of university.”

“Make no mistake, iGEM is hard work... [but] there’s a lot to take away from iGEM. I found myself as part of not only a team but also a community, having accomplished far more than I’d ever dreamed of.”