Science Without Borders Program & CALDO

Consortium of Alberta, Laval, Dalhousie & Ottawa

December 20, 2011
History

• CALDO = Consortium of University of Alberta, Laval University, Dalhousie University and University of Ottawa

• Initiated - October 2009

• Consortium Agreement signed - August 2010

• First joint mission of all CALDO members to Brazil - November 2010

• Executive Director, Dr. John Zee, takes up work - December 2010

• Agreement signed with CNPq – September 2011

• Agreement signed with CAPES – November 2011
CALDO Goals

• Based on rationale of:
  - Shared standards of academic excellence, U 15 membership
  - Regional and linguistic diversity
  - Overlapping research profiles
  - Willingness to cooperate – personal contacts

• Aiming at:
  - Collaborating on a national level with partners abroad for graduate mobility and research cooperation
  - Filling gap in Canada
Organization of CALDO

• Executive Director
  - Strategic coordination
  - Representation to international partners
  - Network building

• Communications
  - Communication lead established at each CALDO institution
  - Strategy led by University of Laval

• Services
  - Single point of entry established for students
  - 1-2 leads established at each CALDO institution
  - Located at University of Alberta
Services: Single Point of Entry

- Abiola Sunmonu, Program Coordinator
  - Oversight of services for graduate and undergraduate students
  - Maintains overview of capacity
  - Advises individual students such that students needs best met by CALDO institutions
  - Accepts applications and facilitates placement of students

- All CALDO universities provide comprehensive student services once student is on campus.
Science Without Borders

• Large-scale nation-wide scholarship program, primarily funded by Brazilian federal government

• Administered by the Ministry of Education's Federal Agency for the Support and Evaluation of Graduate Education (CAPES) & Ministry of Science and Technology's National Council for Scientific and Technological Development (CNPq)

• 100,000 study abroad scholarships in 4 years (75,000 financed by government + 25,000 funded by private industry)

• Program budget = $2 billion over 4 years
## Types of Scholarships & Numbers

<table>
<thead>
<tr>
<th>Type of Scholarship</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Exchange</td>
<td>27,100</td>
</tr>
<tr>
<td>1-Year Sandwich PhD</td>
<td>24,600</td>
</tr>
<tr>
<td>4-Year Full PhD</td>
<td>9,790</td>
</tr>
<tr>
<td>1-2 Year Postdoctoral Fellows</td>
<td>8,900</td>
</tr>
<tr>
<td>Internships (6 months)</td>
<td>2,660</td>
</tr>
<tr>
<td>Training for Industry Specialists</td>
<td>700</td>
</tr>
<tr>
<td>Young Scientist Scholarships</td>
<td>860</td>
</tr>
<tr>
<td>Visiting Researchers/Scholars in Brazil</td>
<td>390</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>75,000</strong></td>
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</tbody>
</table>
Fields of Study

• Engineering
• Physical Sciences: Mathematics, Physics, Chemistry, Biology and Geosciences
• Clinical, Pre-clinical and Health Sciences
• Computing and Information Technology
• Aerospace Technology
• Pharmaceuticals
• Sustainable Agricultural Production
• Oil, Gas and Coal
• Renewable Energy
• Minerals Technology
• Technologies for Prevention and Mitigation of Natural Disasters
• Biotechnology
• Nanotechnology and New Materials
• Bioprospecting and Biodiversity
• Marine Sciences
• Creative Industry
• Practical Technologists
• New Technologies for Construction Engineering
Undergraduate Students

• CALDO-CAPES call for undergraduate mobility planned for early 2012

• ESL + Academic Study + Research Internship; 8-15 months
  (2-3 months language training + 8 months academics* + 2 month internship)
  *expectation of 2-3 academic courses per term

• Scholarship covers
  - Tuition Fee (including international differential)
  - Language Course
  - Monthly Stipend ($870)
  - Moving Expense ($870)
  - Health Insurance
  - Airfare
Undergraduate Eligibility

• For Scholarship
  - Score of at least 600 pts on the Exame Nacional do Ensino Medio (Brazilian university entrance exam)
  - Completed 40%-80% of undergrad degree in Brazil
  - Superior academic achievement in university courses
  - Preference given to student with extracurricular science achievements (eg. Science Olympics)

• For Admission
  - Must meet UAlberta undergraduate program requirements
# Undergraduate Timeline

## Stages

<table>
<thead>
<tr>
<th>CAPES</th>
<th>CALDO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Results 3/25-4/5, 2012</td>
<td>Start Date Academics September 2012</td>
</tr>
<tr>
<td></td>
<td>Start Date Research Internship May 2013</td>
</tr>
</tbody>
</table>
Graduate Students & Postdoctoral Fellows

- CNPq-CALDO call for graduate level mobility planned for spring 2012
- Full PhD, Sandwich PhD & Postdoctoral Fellows
  (48 months Full PhD, 4-12 months Sandwich PhDs, 6-18 months Postdocs)

- Scholarship covers
  - Domestic Tuition Fee; international differential waived
  - Monthly Stipend ($1,300 PhD; $2,100 Postdoc)
  - Moving Expense (one-time payment $1,300 PhD; $2,100 Postdoc)
  - Health Insurance
  - Airfare
# Graduate & Postdoc Timeline

<table>
<thead>
<tr>
<th>Stages</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALDO Scholarship Application Call</td>
<td>March 2012</td>
</tr>
<tr>
<td>Decision-making Period</td>
<td>April 2012</td>
</tr>
<tr>
<td>Results</td>
<td>May 2012</td>
</tr>
<tr>
<td>Start Date</td>
<td>June-Sept 2012</td>
</tr>
</tbody>
</table>

Student does **not** need admission letter to apply for Science Without Borders scholarship, however early conditional admissions are encouraged.

If a conditional admission is not granted, a letter of support from the potential supervisor helps in the scholarship evaluation proposal.
## CALDO Commitment to Science Without Borders

### Capacity Projection

<table>
<thead>
<tr>
<th>Modality</th>
<th>Placements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>400</td>
</tr>
<tr>
<td>Full PhD</td>
<td>1200</td>
</tr>
<tr>
<td>Visiting PhD (Sandwich)</td>
<td>240</td>
</tr>
<tr>
<td>Postdoctoral Fellows</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2840</strong></td>
</tr>
</tbody>
</table>
Communications/Promotion

• Improved CALDO website in January 2012 with specialized content for Brazilian students (www.caldo.ca)

• E-Promotion planned in early 2012, including:
  - Disseminating stories about CALDO to Brazilian media outlets
  - Advertising on CAPES/CNPq websites
  - Science Without Borders via social media—Facebook & Orkut

• CALDO on-the-ground presence
  - Recruitment events
  - Joint CAPES-CALDO research workshop
Student Inquiries

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>• Refer inquiries to Abiola Sunmonu, CALDO Coordinator (<a href="mailto:abiola.sunmonu@ualberta.ca">abiola.sunmonu@ualberta.ca</a>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate</td>
<td>• Encourage application to UAlberta graduate program or as visiting student</td>
</tr>
<tr>
<td></td>
<td>• Alert of upcoming CALDO-CNPq scholarship call in spring 2012</td>
</tr>
<tr>
<td>Postdoc</td>
<td>• Follow regular application channels (potential postdoc consult with faculty member)</td>
</tr>
</tbody>
</table>

Collaboration & Relations with Brazil
Cristian Gonzalez-Paez  cristian.gonzalez-paez@ualberta.ca
Questions?

Britta Baron, Vice-Provost and Associate Vice-President (International)