Georgia Institute of Technology
Institute Undergraduate Curriculum Committee
2014-2015 Annual Report

Tuesday, October 20, 2015
3-5:00 p.m.
Student Center Theater

Fall Meeting of the Faculty, Faculty Senate, & Academic Faculty Senate

Members: Roberta Berry (PUBP), Ed Coyle (ECE), Thanos Economou (ARCH), Mike Goodisman (BIOL), Laura Hollengreen (ARCH), Michael Loss (MATH), Blair MacIntyre (CoC-IC), Rhett Mayor (ME), Reta Pikowsky (REG), Milena Mihail (CoC-CS), Charles Parsons (Scheller CoB), Colin Potts (VP-Undergraduate Education), Lakshmi Sankar (AE), David Scott (CEE), Carol Senf (LMC), Jenny Singleton (PSYC), Marc Smith (ME), John Stein (ODOS), Francis Ulgado (Scheller CoB), Angus Wilkinson (CHEM & BIOCHEM), Yaszek (LMC), (Chen Zhou (IsYE), Laura Margaret Burbach (Undergraduate Student), George Riley (Executive Board Liaison)

Meetings: The IUCC held 24 meetings during the 2014-2015 academic year plus additional subcommittee meetings on focused topics (General Education and Study Abroad). The work of the Committee falls into four main categories (Curriculum Matters, Student Petitions, General Education, and Study Abroad). In the past Fall and Spring Petitions Subcommittees were formed. The Committee decided this year to ask all members who were available to attend all meetings regardless of the focus to ensure a quorum on both petitions and academic matters. Activities in each of these areas are outlined below. The Curriculum Committees are no longer involved in the program review process.

1. August 19, 2014 – Start-up and Petitions
2. September 2, 2014 – Academic Matters
3. September 16, 2014 – Academic Matters
4. October 7, 2014 – Academic Matters
5. November 4, 2014 – Academic Matters
6. November 18, 2014 – Academic Matters
7. December 9, 2014 – Petitions
8. January 6, 2015 – Petitions
11. February 10, 2015 – Academic Matters
12. February 24, 2015 – Petitions
14. March 24, 2015 – Academic Matters
15. March 31, 2015 – Academic Matters
16. April 7, 2015 – Petitions
17. April 14, 2015 – Academic Matters
18. April 28, 2015 – Petitions
19. May 12, 2015 – Petitions
20. June 2, 2015 – Petitions
Dr. Rhett Mayor served as Chair of the Committee. Dr. Laura Hollengreen served as Vice Chair of the Committee. Reta Pikowsky served as Secretary for the Committee.

Over the 2014-2015 academic year, the IUCC approved several modifications and additions to Georgia Tech’s degrees, minors, certificates, and courses that carry Core attributes. Catalog policy changes were approved along with new courses and deactivation of courses.

**Informational Items – Administrative and Academic**

- The General Education assessment report was discussed. Highlights of the findings were shared with the Committee.
- The Committee heard a report from the Center for Academic Success concerning the changes that the University System of Georgia made to the Learning Support guidelines and requirements.

**Discussion/Future Action Items – Administrative and Academic**

- There was a discussion about a proposal from GT-Lorraine to offer a new course. After a detailed discussion, the suggestion was that the Vice Provosts have a conversation to get a better sense of direction on this topic.
- The School of Industrial and Systems Engineering made a presentation on a possible future proposal for a 5-year BSIE-MSSCE degree program.
- There was discussion about changes in pre-requisites and how they could have consequences beyond what appears on the surface. The Committee was asked to think about how adding prerequisites to courses could add to student’s time to graduation, for example. Since this discussion, request for adding prerequisites to a course have come under additional scrutiny.
- Recitations were a topic of discussion and debate. There is confusion about the use of this teaching format, with opinions and practices varying from School to School. There was also discussion about these recitations are scheduled and the impact on course credit. This discussion will be continued into the next academic year.
- There was quite a lot of discussion about the NCP form and how possible changes to it might better ensure complete proposals that would save time.
- There was discussion of syllabi that are turned in with new course proposals that are incomplete and as such hinder the discussion and decision-making. It is expected that a working group will be formed to establish a syllabus template in the next academic year.
- Along with the changes to Learning Support made by the System, there was discussion of the need for new courses designed to support Pre-Calculus and English 1101.
Working Groups

1. A working group was formed to review **guidelines for undergraduate minors**. The members of the work group were:

   - Marc Smith, ME
   - Lakshmi Sankar, AE
   - Chen Zhou, ISyE
   - Laura Hollengreen, ARCH
   - Amy D’Unger, HTS
   - Reta Pikowsky, Registrar

   This group successfully suggested to the Committee that the Minor Guidelines be reformatted, reorganized, and clarified. The approved Guidelines were published in the 2015-2016 Catalog.

2. A working group was formed to review policies and questions related to **online courses**. The members of the work group were:

   - Lisa Yaszek, LMC
   - Jenny Singleton, PSYC
   - Rhett Mayor, ME
   - Reta Pikowsky, Registrar

   This group discovered that there are some rather complex issues associated with online courses. This discovery led the group to suggest that the IUCC continue the discussion and in the next year possibly offer some recommendations on process and policy.

Colleges and Schools

Schools

- The School of History, Technology, and Society was renamed to the School of History and Sociology

Programs

Previews of Upcoming Proposals

- BS/JM Collaboration with Emory University
- School of Music on ensemble courses
- School of Mathematics on changes to lower-division courses
Degrees/Programs

New Collaborative Programs or Agreements:

- BS-JM with Emory University

Modification of Existing Collaborative Programs or Agreements:

- BS-MAT with Georgia State University
  - Change 1 request is to change the title of the MOU from “Collaboration between Georgia Institute of Technology and Georgia State University to Offer Bachelor of Science/Master of Teaching Degree Program” to “Collaboration between Georgia Institute of Technology and Georgia State University to Offer Bachelor of Science/Master of Arts in Teaching Option.”
  - See Minutes for other changes to the agreement.

New Degree Option:

- Bachelor of Science in Mechanical Engineering, add the Research Option (Default Requirements)
- School of International Affairs to participate in the Research Option:
  - BS in International Affairs
  - BS in International Affairs and Modern Language
  - BS in Economics and International Affairs

Modification of Existing Degree:

- BS in Computer Science
  - Information Internet Thread – Add CS 4675 to the Advanced Information Management Pick
  - People Thread:
    - Require CS 3750 in the People Thread
    - Merge the “pick” of User Support Technology into Human Centered Technology pick- Pick 2.
    - Add CS 4472 to the Human-Centered Technology Pick
    - Remove CS 4625 from new Human Centered Technology Pick.

- BS in History, Technology, and Society
  - First, HTS requests approval to modify the HTS degree to shift 3 credit hours from “Free Electives” to “HTS Electives.” This will bring the required HTS coursework for the major (HTS Core courses and HTS electives) to 56 credit hours, which historically has been the case. This change will reduce the Free Electives from 21 to 18 hours and will increase the HTS Electives for the major from 21 to 24 hours
Second, HTS requests approval to modify the HTS degree to reflect new courses added to the HTS curriculum that will help fulfill major requirements, specifically the “Non-U.S.” and the “Science, Technology, and Medicine” requirements.

- BS in International Affairs
  - The Sam Nunn School of International Affairs requests approval to modify and expand the list of courses that may be taken to fulfill the HTS requirement under Core Area E. This HTS requirement calls for a study of non-US history, to be fulfilled through a social science course with the HTS prefix. In recent years the School of History, Technology and Society has updated its course catalog. This request is to add new courses to the list of applicable courses for this HTS requirement.

- BS in Economics and International Affairs
  - The Sam Nunn School of International Affairs requests approval to modify and expand the list of courses that may be taken to fulfill the HTS requirement under Core Area E. This HTS requirement calls for a study of non-US history, to be fulfilled through a social science course with the HTS prefix. In recent years the School of History, Technology and Society has updated its course catalog. This request is to add the new courses to the list of applicable courses for this HTS requirement.

- BS in International Affairs and Modern Language
  - The Sam Nunn School of International Affairs requests approval to modify and expand the list of courses that may be taken to fulfill the HTS requirement under Core Area E. This HTS requirement calls for a study of non-US history, to be fulfilled through a social science course with the HTS prefix. In recent years the School of History, Technology and Society has updated its course catalog. This request is to add the new courses to the list of applicable courses for this HTS requirement.

- BS in Industrial Engineering
  - Remove CEE 3000 from approved Engineering Electives
  - Remove MGT 3150 from business electives

- Bachelor of Science in Biomedical Engineering
  - Reducing topic content of BMED 3300 and 3510, replacing these courses with two new 3-hour versions.
  - Add ECE 3710 and 3741 as required courses.
  - Rename and renumber BMED 1300 to BMED 2250
  - Remove PHYS 2211 as a prerequisite for BMED 2210
  - Rename and renumber BMED 2300 to BMED 2310
  - BMED 1000 eliminated as a required course
• BS in Chemical & Biomolecular Engineering
  o Separate CHBE 4400 into two classes: CHBE 4411 and 4412
  o Revise the CHEM electives

• Bachelor of Science in Biology
  o Add new internship courses
  o Define 21 credits of Biology electives as 12 credits of “depth” and 9 credits of “breadth”

• BS in Business Administration
  o Modify existing Marketing concentration to add more focus on marketing content
  o Modify existing Information Technology Management Concentration to focus more on management

• Bachelor of Science in History Technology and Society
  o Put a cap on the number of credit hours of HTS electives that HTS majors may take pass/fail
  o Limit the number of D grades that HTS majors can count towards the HTS electives

Renaming of Existing Degree:

• BS-Literature, Media, Communication
  o When the School of Literature, Media, and Communication converted the BSSTC program to BSLMC that change was also meant to apply to the 5-year BSSTC/MSDM degree, so that it would become the 5-year BSLMC/MSDM program. This was not formally called out in the original documents pertaining to the degree modification, but was implied by it.

Minors and Certificates

Undergraduate Minor Guidelines:

• The Undergraduate Minor Guidelines document in the Catalog was reorganized and clarified to ensure better understanding on part of students and academic advisors. It was published in the 2015-2016 Catalog.

New Minors:

• Minor in Social Justice (interdisciplinary)
• Minor in Science Fiction Studies approved with the condition that the minor not be open to LMC majors
• Minor in Architecture
Modification of Existing Minor:

- Minor in Computer Science with tracks changed to 7 new Computing minors
- Law, Science, and Technology minor added course that was given a permanent number (MGT 3614: Law for Entrepreneurs)
- Minor in Energy Systems, add CHBE as a participating School
- Law, Science, and Technology Minor as new courses that now have permanent numbers: PUBP 4620, 4640, and 4650
- Minor in History changed number of credit hours designated Special Topics, Special Problems, and Undergraduate Research that can be counted toward the minor
- Minor in Sociology changed number of credit hours designated Special Topics, Special Problems, and Undergraduate Research that can be counted toward the minor
- Minor in Biomedical Engineering: Eliminate course requirement BMED 1750 or BMED 1300, increase Biomedical Engineering coursework from 6 to 9 hours, and replace APPH/BIOL 3751 with APPH/BIOL 3753 and add APPH/BIOL 3755 as an elective
- Minor in Scientific Engineering Computing: require an application to the minor program with specific requirements
- Minor in Computational Data Analysis: require an application to the minor program with specific requirements
- Minor in Leadership Studies, add a new track in Global Engineering
- Minor in Material Science and Engineering, changes in Special Topics allowed as well as Special Problems, UG Research, or Internship credit

New Certificates:

- Certificate in Construction Management (approved on the condition that the School comes back with a list of prerequisite changes that will be necessary)
- Certificate in Computational Design
- Certificate in Sustainable Architecture

Deactivation/Termination of Certificates:

- Certificate in European Studies terminated due to consolidation with another certificate

Modification of Existing Certificate:

- Pre-Law Certificate added course that was given a permanent number (MGT 3614: Law for Entrepreneurs)
- Certificate in Latin American Affairs added five new courses
- Certificate in European Affairs – Contingent upon Registrar confirming that the original proposal was approved with an exception that students had to
have only 6 hours (9 hours are required by policy) at the 3000-level or above)

- Pre-Law Certificate adds new courses that have been given permanent numbers: PUBP 4620, 4640, and 4650
- Certificate in European Affairs consolidates the European Union Certificate and the European Affairs Certificate and updates the European Affairs Certificate to include more course offerings
- Certificate in Information Technology Management modified to ensure that all students have the required knowledge and skill base in MIS, programming, and database

Courses

Placement Requirement

- College of Architecture, School of Architecture
  - First-time freshmen must enroll in COA1011 to begin their design studies. Students with previous college-level coursework may request a portfolio/transcript review to determine whether advanced studio placement is appropriate. See the College website for guidance on portfolio preparation and deadlines.

Modification of Course Description:

- INTA 4040 Environmental Politics

New Subject Code

- Ivan Allen College
  - IAC

New Courses Approved:

1. CS 4057: Business Process Analysis and Design 3-0-3
2. MATH 2106: Foundations of Mathematics Proofs 3-0-3
3. INTA 3773: Global Issues & Leadership 3-0-3
4. LMC 3773: Global Issues & Leadership 3-0-3
5. LMC 3253: Animation 3-0-3
6. MATH 1550: Introduction to Differential Calculus 3-0-3
7. MATH 1551: Differential Calculus 2-1-2
8. MATH 1552: Integral Calculus 4-0-4
9. MATH 1553: Introduction to Linear Algebra 2-1-2
10. MATH 1554: Linear Algebra 4-0-4
11. MATH 1555: Calculus for the Biological Sciences 4-0-4
12. MATH 1564: Linear Algebra with Abstract Vector Spaces 4-0-4
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>Multivariable Calculus</td>
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<td>Introduction to Discrete Mathematics</td>
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59. ARCH 4508: Shape Grammars 3-0-3
60. ARCH 4701: Analog-Digital Design Computation 3-0-3
61. ARCH 4702: Design Scripting 3-0-3
62. ARCH 4226: Green Construction 3-0-3
63. ARCH 4240: Building Simulation 3-0-3
64. ARCH 4320: Retrofitting Suburbia 3-0-3
65. ARCH 4447: Urban Ecological Design 3-0-3

New Courses Denied or Withdrawn:

- MUSI 3016: Ensemble Participation 0-0-0 (Denied)
- ECON 4520: Economics of Sports 3-0-3 (Denied)

Change/Clarification in Course Title:

- CEE 4310 - The long title of this course was approved as Water Quality Engineering. The transcript title of the course was listed as Water Quality. The transcript title will be Water Quality Engr so that “Engr” will show up when shows up when the students register.

Deactivated Courses:

- ISYE 2030 Modeling in Industrial Engineering
- ISYE 4756 Technology Forecasting
- ISYE 4791 Integrative Prof-Cog Sci
- ISYE 4257 Appl Robotics & Auto Data
- ISYE 3332 Honor’s Random Systems
- ISYE 4792 Dsgn Proj-Cognitive Sci
- CS 1050: Constructing Proofs (has been replaced with CS 2050)
- ISYE 4790: Cognitive Science
- PTFE:
  - PTFE 1100 Intro-Polymer & Fiber Engr
  - PTFE 1XXX PTFE Electives
  - PTFE 2200 Struct & Prop-Fibers & Polym
  - PTFE 2698 Research Assistantship
  - PTFE 2699 Undergraduate Research
  - PTFE 2XXX PTFE Electives
  - PTFE 3200 Yarn & Fabric Formation
  - PTFE 3221 Textile Formation & Test
  - PTFE 3XXX PTFE Electives
  - PTFE 4020 Textile Mgt Internship
  - PTFE 4043 Safety and Ethics
  - PTFE 4101 Carpet Technology
  - PTFE 4102 Nonwovens Technology
  - PTFE 4103 Knitting Technology
PTFE 4104 Industrial Textiles
PTFE 4105 Survey-Apparel Industry
PTFE 4106 Science of Color
PTFE 4107 App of Mech-Text Struct
PTFE 4108 Tex Production Economics
PTFE 4110 Poly & Fiber Engr Design I
PTFE 4141 Polymer Characterization
PTFE 4210 Poly & Fiber Eng Design II
PTFE 4698 Research Assistantship
PTFE 4699 Undergraduate Research
PTFE 4720 Fiber Proc for Managers
PTFE 4721 Fabric-Color & Performance
PTFE 4723 Prop-Textile Material
PTFE 4777 Intro-Polymer Sci & Engr
PTFE 4801 Special Topics
PTFE 4802 Special Topics
PTFE 4803 Special Topics
PTFE 4804 Special Topics
PTFE 4901 Special Problems
PTFE 4902 Special Problems
PTFE 4903 Special Problems
PTFE 4XXX PTFE Electives
PTFE 3210 Transport-Polymers & Fiber
PTFE 3220 Text Operations & Mgt
PTFE 3230 Polymer & Fiber Processing
PTFE 3720 Intro-Fiber Enterprise
PTFE 4100 Chem Proc-Text Materials
PTFE 4122 Textile Chemistry Lab
PTFE 4140 Poly Solutions & Surfaces
PTFE 4740 Bio Inspired Design
PTFE 4761 IndustrialCtrls & Mfg
PTFE 4775 Polymer Science & Engr I
PTFE 4776 Polymer Science & Engr II
PTFE 4791 Mech Behavior-Composites
PTFE 4793 Composite Mater& Process
PTFE 4794 Composite Materials&Mfg

Allow Courses to Count as Free Elective:

- CETL 4803 (Sections ISS, SOC, and PSYC) based on prior approval of CETL 4803 PR section; all sections equally as rigorous

New Courses Requesting Core Attributes- Approved:

- RUSS 3242: Urban Mythologies in Russian Literature 3-0-3 (HUM)
- INTA 3012: War in the 20th Century 3-0-3 (SOCSCI)
- LMC 3255: Cinema and Digital Culture 3-0-3 (HUM)
• PHIL 3140: Philosophy of Food 3-0-3 (SOCSCI)
• PUBP 3244: Stem Cell Policy and Ethics 3-0-3 (SOCSCI)
• PUBP 3320: Climate Policy 3-0-3 (SOCSCI)
• PUBP 1142: Teams and Collaboration 3-0-3 (SOCSCI)
• PUBP 2142: Teams and Collaboration in Context 3-0-3 (SOCSCI)
• HUMANITIES
  o MUSI 3261: Women's Choir 1-0-1
  o MUSI 3551: Rock and Pop Ensemble 1-0-1
  o MUSI 3531: New Music Ensemble 1-0-1
  o MUSI 3321: Jazz Combo 0-3-1
  o MUSI 3018: Marching Band 0-6-2
  o MUSI 3019: Pep Band 0-3-1

Renumbered and renamed courses with Attributes:

• HUMANITIES
  o MUSI 3241: Chorale 1-0-1
  o MUSI 3311: Jazz Ensemble 1-0-1
  o MUSI 3121: Concert Band 1-0-1
  o MUSI 3131: Symphonic Band 1-0-1
  o MUSI 3511: Percussion Ensemble 1-0-1
  o MUSI 2321: Chamber Choir (currently Vocal Ensemble) 1-0-1
  o MUSI 3251: Glee Club (currently Men's Glee Club) 1-0-1
  o MUSI 3611: Symphony Orchestra 1-0-1

Courses with Changed Pre-requisites or Co-requisites:

• ISyE 2027 Probability with Applications
• MSE 4775 Polymer Science & Engineering I
• ISyE 3025 Engineering Economy
• AE 4451: 3450 Jet & Rocket Propulsion
• PSYC 3750: User Interface and Design
• CS 4460: Intro Info Visualization
• CS 4650: Natural Language
• ISyE 4301: Supply Chain Economics
• BMED 2210: Conservation Prin in BME
• BMED 3610: Quant Engr Physio Lab II
• BMED 4602: Capstone Design
• BMED 4757: Biofluid Mechanics
• BMED 4784: Engr Electrophysiology
• ISyE 2028: Basic Statistical Methods
• ISyE 3103: Supply Chain Mod: Logistics
• ISyE 2027: Probability with Apps
• ISyE 3770: Statistics with Applications
• BC 3600 Construction Cost Mgt
• BC 3610 Construction Law
• BC 4610 Value Engr & Bldg Econ  
• BC 4630 Senior Capstone Project  
• BC 4710 Green Construction  
• ECON 3300: Economics of Energy Markets

Updates to the International Plan

• Bachelor of Science in Literature, Media, and Communication  
  o Bachelor of Science in Science, Technology, and Culture was renamed to Bachelor of Science in Literature, Media, and Communication.  
  In their Fall 2014 meeting, the IP Committee reviewed and voted to approve the LMC 8-semester plan for the International Plan.

Student Petitions and Appeals

The IUCC acted on 375 petitions, reviewed 10 written appeals of denied petitions, and heard 0 (zero) in-person appeals of denied petitions. Reviewed by the Registrar, under the authority of the Committee, were 429 petitions including requests such as readmission after the first drop, use of a “D” grade when the second attempt of the course resulted in an F grade, and requests to return in the following term after withdrawing.

Of the 814 petitions that were acted on, 99 (12.16%) were denied. Of the 10 appeals, 2 (20%) were denied. Petitions that are handled administratively by the Registrar are sent on to the committee for regular processing only as needed.

2014-2015 375 petitions, 10 written appeals, 0 in-person appeals, 429 handled administratively (814)  
2013-2014 278 petitions, 16 written appeals, 0 in-person appeals, 411 handled administratively (705)  
2012-2013 353 petitions, 11 written appeals, 1 in-person appeals, 405 petitions handled administratively (770)  
2011-2012 431 Petitions, 16 written appeals, 0 in-person appeals, 356 petitions handled administratively (787)  
2010-2011 408 petitions, 18 written appeals, 5 in-person appeals, 312 petitions handled administratively (743)  
2009-2010 481 petitions, 14 written appeals, 3 in-person appeals, 306 petitions handled administratively (804)  
2008-2009 430 petitions, 11 appeals, 313 petitions handled administratively (754)  
2007-2008 558 petitions, 11 appeals, 213 petitions handled administratively (882)  
2006-2007 576 petitions, 36 appeals, 298 petitions handled administratively (910 total)  
2006-2007 579 petitions, 21 appeals, 140 petitions handled administratively (740 total)
General Education Subcommittee:

Dr. Laura Hollengreen, Vice Chair of the IUCC, ARCH, served as the Chair of the General Education Subcommittee during academic year 2014-2015. Reta Pikowsky and Ann Laros provided support to prepare minutes.

Committee Membership, as approved by the Executive Board was:
- Laura Hollengreen, IUCC Vice-Chair, Chair, Architecture
- Roberta Berry, Public Policy, current IUCC Member
- David Scott, Civil Engineering, current IUCC Member
- Larry Bottomley, Chemistry, (Former Chair and Former IUCC Member)
- Michael Loss, Mathematics, current IUCC Member
- Rebecca Burnett, Writing Program (LMC)
- Reta Pikowsky, Registrar
- Colin Potts, Vice Provost UE
- Jon Gordon, Assessment Office
- David Shook, Modern Languages
- Carol Senf, Literature, Media, and Communication, current IUCC Member
- Steven Girardot, Assoc. Vice Provost, UE

Meetings were held on:
- April 9, 2015
- February 17, 2015
- November 19, 2014
- October 22, 2014
- October 8, 2014

Areas addressed by the Subcommittee during the year included:
- Course proposals for Core area inclusion
- Assessment of Gen Ed courses
- Assessment Report
- Process and procedure
- Syllabus template
- Learning outcomes

There were issues with proposals submitted in late Fall 2014 with some courses that had requested Core attributes remaining unresolved at the end of the year. The System Office required revised proposals before reconsideration of the requests could occur.

Study Abroad Subcommittee:

The membership of the committee for 2014-2015 was:
In 2014-15, the Study Abroad Subcommittee reviewed and approved proposals for 1 fall semester faculty-led study abroad program, 1 spring semester faculty-led study abroad program, 6 spring semester embedded study abroad programs, 30 summer faculty-led study abroad programs, and heard 0 student appeals. Three summer programs and 1 of the embedded study abroad programs were cancelled due to low enrollment. The Committee held two meetings during Fall Semester 2014 and conducted the rest of its business by e-mail.

The Committee discussed the process for how GT Study Abroad Programs are approved and how they operate once approved. The Committee learned more about the assessment process, the study abroad proposal form, how the courses operate, the faculty-led study abroad proposal process, the cycle for re-approving programs, and the general contents of the study abroad manual.

Submitted by:

Dr. Rhett Mayor, ME
Chair, IUCC, 2014-2015