Section 18
Education
POLICY
The purpose of the Education Strategy Committee is to encourage, propose, and advocate for innovative programs that support and advance the educational mission of INFORMS. In particular, the Committee’s mission is to foster the development of academic programs in OR/MS and analytics, promote pursuit of education and successful careers in OR/MS and analytics, and support OR/MS and analytics professionals in their pursuit of high quality professional development.

PROCEDURES

Membership
The members of the Education Strategy Committee are appointed by the Vice President of Education with approval of the Board. Normally, the committee will consist of 5-10 appointed members, including student, academic, and industry representatives. All members shall serve for a 2-year term with the possibility of reappointment for an additional term. New members will be appointed annually to stagger the terms and provide continuity. Committee members will be considered and selected based on their expertise and experience and with an awareness that diversity of background and thought is invaluable. The Education Strategy Committee is part of the Education Group cluster of committees whose Board Liaison is the Vice President of Education. The Director of Education and Industry Outreach shall be an ex officio member of the committee. The Vice President of Education will serve as Chair.

The Vice President of Education is elected for a two-year term by the membership of INFORMS, normally an INFORMS general election, according to the bylaws of the organization. Candidates for the position should have demonstrated experience in education leadership along with active participation in the functions of the Institute. The Vice President may run unopposed for a second two-year term.

Functions
1. Act as a coordinating body of all of the education-related activities of INFORMS. Provide a structure for the incubation of new ideas, the sharing of progress of ongoing projects, and the collaboration across committees.
2. Promote the inclusion of OR/MS and analytics concepts, skills, and processes in business, engineering, mathematics, and other relevant educational programs.
3. Support members in their pursuit of teaching excellence in OR/MS and analytics.
4. Foster educational outreach to K-12, community college, and undergraduate students as well as faculty to increase awareness of OR/MS and analytics tools, applications, and career options.
5. Encourage programs to expose undergraduate students to OR/MS and analytics, particularly those that encourage pursuit of graduate degrees and professional opportunities in these disciplines.
6. Facilitate lifelong professional development opportunities for OR/MS and analytics professionals.

Relation to the Board
The Education Strategy Committee will report to the Board through the Vice President of Education. Reporting is by written reports submitted at least one month prior to the INFORMS annual meeting.
NUMBER 18.1 EDUCATION STRATEGY COMMITTEE

EFFECTIVE: 2017 SUMMER BOARD MEETING

Meetings
The committee will meet at each INFORMS annual meeting. Other meetings will take place as needed via teleconference and e-mail communication.

RELATED DOCUMENTS:
INFORMS Policies and Procedures Manual, Section 2.1 General Committee Procedures
INFORMS Policies and Procedures Manual, Section 4.3 Nominations and Elections for the Board
NUMBER 18.2 EDUCATION OUTREACH COMMITTEE

EFFECTIVE: 2017 SUMMER BOARD MEETING; 2020 WINTER BOARD MEETING

POLICY

The primary purpose of the Education Outreach Committee is to encourage students toward eventual careers in OR/MS and analytics, to raise awareness of these disciplines and their relevant applications among K-12, community college and undergraduate college students and faculty, and support/promote the teaching of OR/MS and analytics in K-12, community college, and early college curricula.

PROCEDURES

Membership

The Education Outreach Committee shall consist of a chair, two vice chairs, and any other INFORMS member who is interested in developing outreach strategies to students and faculty at all educational levels. The Chair shall be appointed by the Vice President of Education with approval of the Board. The vice-chairs shall be appointed by the chair with approval of the Vice President of Education. The chair and vice-chairs shall serve for a 3-year term with the possibility of reappointment for an additional term. The committee may establish subcommittees. The Education Outreach Committee Chair, with input from the Vice President of Education, shall appoint the chairs of established subcommittees. The chair and vice-chairs will be responsible for setting and facilitating the implementation of the strategic vision of the committee. The chair, vice-chairs, and any chairs of established subcommittees will be the decision-making body of the committee. Officers will be considered and selected based on their expertise and experience and with an awareness that diversity of background and thought is invaluable. It is expected that at least one member of the Education Outreach Committee be a liaison from the Committee on Teaching and Learning.

As his/her term of office nears its end, the Education Outreach Committee Chair shall poll (in written form) his/her committee members about their interest in chairing the Committee. Based on these responses, the Education Outreach Committee Chair shall make chair recommendations to the Vice President of Education. It is preferred that the chair should have served previously as a member of the committee or another relevant committee (education and/or outreach).

Functions

The committee’s emphasis shall be concentrated on providing resources for middle school, high school, community college, and undergraduate college teachers to integrate OR/MS and analytics principles into existing courses or to introduce new courses/modules highlighting these disciplines. The committee will recommend activities and, upon approval of the Education Strategy Committee (and the Board when necessary), will develop creative and innovative educational programs and materials. The Committee is also responsible for organizing or assisting with workshops for teachers and/or administrators and meeting with state and local education policy-makers to promote the value and applications of OR/MS and analytics. All outreach with state and local policy-makers must be coordinated with the Director of Public Affairs and Marketing.
To foster leadership and encourage widespread member involvement, the Education Outreach Committee shall delegate activities and duties to members of the committee, and should draw upon volunteer efforts from the Committee on Teaching and Learning as much as possible.

**Review**
The Education Strategy Committee will review the committee’s work periodically, but not less than once every four years, to determine whether the P&P and the committee are still aligned and continuing to benefit INFORMS and our members.

**RELATED DOCUMENTS:**
INFORMS Policies and Procedures Manual, Section 2.1 General Committee Procedures
NUMBER 18.2.1    COMAP SUBCOMMITTEE

EFFECTIVE: 2017 SUMMER BOARD MEETING

POLICY
The COMAP Subcommittee is the principal point-of-contact and liaison to the Consortium for Mathematics and its Applications (COMAP) and its activities. It arranges for INFORMS participation in three major annual international contests: the college-level Mathematical Contest in Modeling (MCM) and the Interdisciplinary Contest in Modeling (ICM), and the High School Mathematical Contest in Modeling (HiMCM).

PROCEDURES

Membership
The Subcommittee shall consist of a chair and three additional members, who shall also serve as MCM, ICM and/or HiMCM judges representing INFORMS. Committee members will be considered and chosen from a broad and diverse pool of members within INFORMS, including but not limited to women and underrepresented racial/ethnic groups. All members, including the chair, shall serve for a 4-year term with the possibility of reappointment for an additional term. New members will be appointed annually to stagger the terms and provide continuity. All committee members should engage others in their activities to prepare and engage potential future committee members. The chair shall be appointed by the Vice President of Education with the approval of the Board. Members shall be appointed by the chair with the approval of the Vice President of Education.

Functions
In addition to serving as MCM, ICM and HiMCM judges, the Subcommittee shall also oversee any INFORMS award recognition for exemplary contest papers associated with these contests. One INFORMS Outstanding paper, recognizing team skills in modeling and problem solving, shall be designated by the INFORMS Head Judge for each contest problem (MCM-2, ICM-1). Additionally, all Outstanding papers from the HiMCM shall be identified by the INFORMS Head Judge for special recognition and awards. The Subcommittee shall arrange for suitable recognition and awards for designated teams and faculty advisors consistent with the mission and goals of INFORMS.

Relation to the Board
The COMAP Subcommittee is part of the Education Outreach Committee, which reports to the Board through the Vice President of Education. Reporting is by written reports submitted to the Chair of the Education Outreach Committee and the Vice President of Education at least one month prior to the INFORMS annual meeting.

Meetings
The Subcommittee will conduct most or all of its business under the auspices of COMAP and the contest arrangements, but may meet as needed by teleconference.
Review
The Education Strategy Committee will review the committee’s work periodically, but not less than once every four years, to determine whether the P&P and the committee are still aligned and continuing to benefit INFORMS and our members.
POLICY
The Professional Development Committee oversees the strategic direction and implementation of professional
development in analytics and operations research. The program may encompass all effective methods of
adult learning, including in-person and online courses. The topics covered in the program should strike a
balance between wide coverage and availability, the goal of promoting INFORMS as a valuable society
within the analytics and operations research communities, and the need for demand to meet operational
minimums as defined by the Board.

PROCEDURES
Membership
The committee shall consist of a chair, a vice-chair, and up to six additional members. All members, including
the chair, shall serve for a 3-year term with the possibility of reappointment for an additional term. New
members will be appointed annually to stagger the terms and provide continuity. The chair shall be appointed
by the Vice President of Education with the approval of the Board. The vice-chair and additional members
shall be appointed by the chair with the approval of the Vice President of Education. Officers and committee
members will be considered and selected based on their expertise and experience and with an awareness
that diversity of background and thought is invaluable. The Professional Development Program Manager shall
serve as an ex officio member of the committee.

Functions
The Professional Development (PD) Committee is responsible for overseeing INFORMS’ professional
development program and activities. This includes but is not limited to:
1. Strategic Review of the landscape of professional development in operations research, management
   science, and analytics to identify appropriate opportunities for expansion, targeted audiences, potential
   conflicts, and strategies for differentiating INFORMS PD offerings from competitors.
2. Development and revision of criteria by which instructors, whether new or continuing, should be
evaluated. These criteria should include dimensions of technical strength, effective delivery, and
   pedagogical expertise.
3. Review of all new instructors, biennial review of continuing instructors, and annual review of the
   schedule of course offerings.
4. Development and revision of an assessment plan by which success of the program will be evaluated.
   This assessment should ensure that content and delivery of all courses meet INFORMS quality
   standards, that the program continues to support INFORMS strategic objectives, and that the program
   attains and retains financial solvency.
5. Tri-annual review of the Professional Development Program based on the assessment and
data collection plans, in collaboration with the Vice President of Education and the Director of Education
   and Industry Programs.
6. Annual review and approval of the Professional Development Program budget for recommendation
to the Vice President of Education and the Director of Education and Industry Programs.
NUMBER 18.3      PROFESSIONAL DEVELOPMENT COMMITTEE

EFFECTIVE:  2017 SUMMER BOARD MEETING

Relation to the Board
The Professional Development Committee is part of the Education Group cluster of committees and reports to the Board through the Vice President of Education. Reporting is by written reports submitted to the Vice President of Education at least one month prior to the INFORMS annual meeting.

Meetings
The committee will meet as needed throughout the year, primarily by teleconference, but also in person as needed at one or more of the INFORMS meetings.

Review
The Education Strategy Committee will review the committee’s work periodically, but not less than once every four years, to determine whether the P&P and the committee are still aligned and continuing to benefit INFORMS and our members.

RELATED DOCUMENTS:
INFORMS Policies and Procedures Manual, Section 2.1 General Committee Procedures
POLICY
The future of the profession is with our students and those who train them. Hence, the Institute annually sponsors a set of colloquia for students and for new faculty. All relevant academic departments are invited to nominate participants for each colloquium.

PROCEDURES

Membership
The Committee shall consist of an overall Combined Colloquia Chair, as well as two co-chairs for each of the individual colloquium who report to the Combined Colloquium Chair. The Combined Colloquium Chair shall serve a two-year term, and the individual colloquium chairs will each serve two-year, staggered terms. The Combined Colloquium Chair shall be appointed by the Vice President of Education with the approval of the Board. The individual colloquium co-chairs shall be appointed by the Combined Colloquium Chair with the approval of the Vice President of Education. If desired, the Combined Colloquium Chair may appoint additional members of the committee with approval of the Vice President of Education. Chairs and members will be considered and selected based on their expertise and experience and with an awareness that diversity of background and thought is invaluable.

Functions
The Combined Colloquium Committee is responsible for putting on these colloquia. Unless otherwise approved by the Board, all of these colloquia take place immediately preceding the start of the INFORMS annual meeting. While admission to these colloquia is handled separately, there may be joint meals and plenary presentations.

Relation to the Board
The Committee is part of the Education Group cluster of committees, which reports to the Board through the Vice President of Education. Reporting is by written reports submitted to the Vice President of Education at least one month prior to the INFORMS annual meeting.

Procedural Notes
1. The Combined Colloquium Chair is a member of the local organizing committee for the annual meeting. It is recommended that the individual chairs also be invited to serve on this organizing committee.
2. The colloquia should be held at the main conference hotel if affordable rooms can be assured.
3. If possible, the appointed Colloquia Chairs should attend the prior year's Colloquia.
4. Relevant INFORMS subdivisions, fora, and committees should be consulted in the selection of chairs for individual colloquia (e.g., The Committee on Teaching and Learning should be consulted about teaching colloquia, JFIG should be consulted about colloquia for new faculty, etc.)
5. It is important to advertise the Combined Colloquia in OR/MS Today, and to send announcements and applications to all OR/MS Ph.D.-granting programs, all OR/MS academic units, and student chapters.
6. Invitation to professional participants (e.g. faculty) should be made early enough that teaching replacements can be found to allow them to attend.

7. Pricing per student and per faculty member for the colloquia will be determined based on the colloquia costs. It is expected that student pricing will be lower than faculty pricing.

8. Significant changes to the colloquia content, structure, or pricing should be submitted for approval to the Education Strategy Committee.

Review
The Education Strategy Committee will review the committee’s work periodically, but not less than once every four years, to determine whether the P&P and the committee are still aligned and continuing to benefit INFORMS and our members.

RELATED DOCUMENTS:
INFORMS Policies and Procedures Manual, Section 2.1 General Committee Procedures
INFORMS Policies and Procedures Manual, Section 11.7 Student Affairs Committee
NUMBER 18.5 EDUCATION PROGRAMS’ DATABASE COMMITTEE

EFFECTIVE: 2017 SUMMER BOARD MEETING

POLICY
The Education Programs’ Database Committee oversees the reconstruction and maintenance of a database of OR/MS and analytics-related degree programs offered in academia. The database is of use to potential students looking for degree programs, faculty wanting to establish a related degree program, companies looking for degree programs that meet their needs, and by staff for tracking and coordinating purposes. The Committee’s purpose is not to participate in the day-to-day maintenance of the database, but rather to advise on ways to maintain the accuracy and relevance of the database.

PROCEDURES

Membership
The committee shall consist of a chair and four additional members. All members, including the chair, shall serve for a 2-year term with the possibility of reappointment for an additional term. New members will be appointed annually to stagger the terms and provide continuity. The chair shall be appointed by the Vice President of Education with the approval of the Board. Two members should be appointed by the chair of the University Analytics Programs’ Committee, with the remaining members appointed by the committee chair, all with the approval of the Vice President of Education. Officers and members will be considered and selected based on their expertise and experience and with an awareness that diversity of background and thought is invaluable. INFORMS staff members, appointed by the Director of Information Technology and the Director of Education and Industry Outreach, shall serve as ex officio members of the committee.

Relation to the Board
The Education Programs’ Database Committee is part of the Education Group cluster of committees, which reports to the Board through the Vice President of Education. Reporting is by written reports submitted to the Vice President of Education at least one month prior to the INFORMS annual meeting. It is expected that the Education Programs’ Database Committee reports regularly to the Education Strategy Committee.

Meetings
The committee will meet as needed throughout the year, primarily by teleconference, but also in person as needed at one or more of the INFORMS meetings.

Review
The Education Strategy Committee will review the committee’s work periodically, but not less than once every four years, to determine whether the P&P and the committee are still aligned and continuing to benefit INFORMS and our members.

RELATED DOCUMENTS:
INFORMS Policies and Procedures Manual, Section 2.1 General Committee Procedures
The University Analytics Programs’ Committee brings together representatives of analytics programs on the undergraduate and graduate level. The goals of the committee are to provide systemization and guidance both to newly forming and established analytics programs, and to provide a forum that will allow program representatives to learn from one another.

**Membership**
The committee shall consist of a chair, two vice chairs, and a representative from all interested undergraduate and graduate analytics’ programs. All officers shall serve for a 2-year term with the possibility of reappointment for an additional term. Appointments will be made annually to stagger the terms and provide continuity. Officers will be considered and selected based on their expertise and experience and with an awareness that diversity of background and thought is invaluable. The chair shall be appointed by the Vice President of Education with the approval of the Board. The vice chairs will be chosen by the committee chair with the approval of the Vice President of Education. The committee may establish subcommittees, one of which is a standing committee responsible for organizing the annual event of the Meeting of Analytics Program Directors (MAPD). The University Analytics Programs’ Committee Chair, with input from the Vice President of Education, shall appoint the chairs of established subcommittees.

**Functions**
The committee will address important aspects of university analytics programs:
1. Share ideas and information across institutions
2. Document information and resources
3. Compare enrollment data, faculty numbers, and metrics
4. Create an awareness of the types of programs being developed and offered
5. Develop curriculum metrics and benchmarking data that can be shared
6. Be a resource for institutions whose administrators have expressed an interest in analytics education programs and for those that have decided to start an analytics education program
7. Create linkages with industry and opportunities to share information and needs
8. Organize and oversee an annual MAPD event at the annual, spring Business Analytics Meeting

**Relation to the Board**
The University Analytics Programs’ Committee is part of the Education Group cluster of committees, which reports to the Board through the Vice President of Education. Reporting is by written reports submitted to the Vice President of Education at least one month prior to the INFORMS annual meeting. It is expected that the University Analytics Programs’ Committee reports regularly to the Education Strategy Committee.

**Meetings**
The committee will meet regularly by teleconference and at least once in person annually, usually at the INFORMS annual meeting.
Review
The Education Strategy Committee will review the committee’s work periodically, but not less than once every four years, to determine whether the P&P and the committee are still aligned and continuing to benefit INFORMS and our members.
NUMBER 18.7 COMMITTEE ON TEACHING AND LEARNING

EFFECTIVE: 2017 SUMMER BOARD MEETING

POLICY
The Committee on Teaching and Learning brings together individuals interested in the teaching and learning of OR/MS and analytics in all settings and at all educational levels. The goals of the committee are to develop strategies and structures that will allow instructors to network and learn from one another. Additionally, the Committee will facilitate volunteer efforts to support INFORMS education activities.

PROCEDURES

Membership
The committee shall consist of a chair, two vice chairs, and any other INFORMS member who expresses interest in the teaching and learning of OR/MS and analytics. All officers shall serve for a 2-year term with the possibility of reappointment for an additional term. Appointments will be made annually to stagger the terms and provide continuity. The chair shall be appointed by the Vice President of Education with approval of the Board. The vice chairs will be chosen by the chair with the approval of the Vice President of Education. The committee may establish subcommittees. The committee chair, with input from the Vice President of Education, shall appoint the chairs of established subcommittees. Officers will be considered and selected based on their expertise and experience and with an awareness that diversity of background and thought is invaluable. The chair, vice-chairs, and any chairs of established subcommittees will be the decision-making body of the committee.

Functions
The committee will address important aspects of teaching and learning in OR/MS:

1. Promote sharing and dissemination of resources that support effective teaching of OR/MS and analytics, including by organizing sessions at INFORMS conferences.
2. Coordinate with other INFORMS committees, particularly the Education Strategy Committee and the Education Outreach Committee to provide volunteer support for INFORMS education activities.
3. Support the development of effective teaching of new and continuing faculty through activities such as the Teaching Effectiveness Colloquium and coordination with the Combined Colloquia Committee.
4. Provide a mechanism for the involvement of all INFORMS members interested in effective teaching of OR/MS and analytics.

Relation to the Board
The Committee on Teaching and Learning is part of the Education Group cluster of committees, which reports to the Board through the Vice President of Education. Reporting is by written reports submitted to the Vice President of Education at least one month prior to the INFORMS annual meeting. It is expected that the Committee on Teaching and Learning reports regularly to the Education Strategy Committee.

Meetings
The committee will meet at each INFORMS annual meeting. Other meetings will take place as needed via teleconference and e-mail communication.
Review

The Education Strategy Committee will review the committee’s work periodically, but not less than once every four years, to determine whether the P&P and the committee are still aligned and continuing to benefit INFORMS and our members.

RELATED DOCUMENTS:
INFORMS Policies and Procedures Manual, Section 2.1 General Committee Procedures