

MEMORANDUM

To:

Donna E. Shalala, President

From:

Chair, Faculty Senate

Date:

September 26, 2007

Subject: Faculty Senate Legislation #2007-15(B) - Establishment of the University of Miami

Institute for Theoretical and Mathematical Ecology

The Faculty Senate, at its January 31, 2007 meeting, voted unanimously to approve the Establishment of the University of Miami Institute for Theoretical and Mathematical Ecology

This legislation is now forwarded to you for your action.

SS/ib

cc:

Thomas LeBlanc, Executive Vice President and Provost

R-Magistation/2007-1008/2007-154B)EstablishmontofUMInstituteTheoreticalMathomaticalEcology.doal: facsen@miami.edu

David J. Birnbach, Vice Provost for University Administration and Faculty Affairs

[Please contact the Senate office to view this proposal.]

Faculty Senate 1252 Memorial Drive, 325 Ashe Admin. Bldg. Coral Gables, Florida 33124 Phone: (305) 284-3721 • Fax: (305) 284-5515 http://www.miami.edu/FacultySenate



MEMORANDUM

To:

Donna E. Shalala, President

From:

Stephen Sapp

Chair, Faculty Senate

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Thomas LeBlanc, Executive Vice President and Provost

David J. Birnbach, Vice Provost for University Administration and Faculty Affairs

Faculty Senate Legislation #2007-15(B) – Establishment of the University of Miami Institute for Theoretical and Mathematical Ecology

PRESIDENT'S RESPONSE

APPROVED: DATE: 10/1/07 (President's Signature) DEAN - College of Arts & Sciences DEAN - College of Arts & Sciences
OFFICE OR INDIVIDUAL TO IMPLEMENT: DEAN - R SMAS
EFFECTIVE DATE OF LEGISLATION: (if other than June 1 next following)
NOT APPROVED AND REFERRED TO:
REMARKS (IF NOT APPROVED):

PROPOSAL FOR A UNIVERSITY OF MIAMI INSTITUTE FOR THEORETICAL AND MATHEMATICAL ECOLOGY (ITME)

Executive Summary

We propose to create an academic entity, the University of Miami Institute for Theoretical and Mathematical Ecology (ITME). The proposed institute represents the combined efforts of a group of faculty from two schools: the College of Arts and Sciences (Departments of Mathematics, Biology, and Computer Science) and the Rosenstiel School of Marine and Atmospheric Sciences. The Institute will operate under the Joint auspices of the two schools.

Ecology is one of a number of areas of scientific inquiry that are being profoundly Influenced by advances in quantitative knowledge, both analytic and computational. Indeed, mathematical biology at large is now recognized by the National Science Foundation as a separate program within the Division of Mathematical Sciences of the Directorate for Mathematical and Physical Sciences. A Joint Initiative with the National Institutes of Health for Research in Mathematical Biology is the Division's largest current fiscal commitment. Ecology draws on a range of scientific disciplines, representing the essential duality of its aims and methods. In part, it has a goal of understanding population dynamics and community structure for various assemblages of organisms across a range of temporal, spatial and organizational scales which makes complete rellance on controlled laboratory experiments impossible and necessitates the use of quantitative models. It also aims to provide predictions about quantitative outcomes in various particular situations, so as both to inform human knowledge and inquiry and to address the balance between maintaining biodiversity and advancing human development in a manner that is sustainable. Frequently such inquirles may concern the very survival of some species. As a result, Ecology cannot depend solely on empirical studies, but must represent an interplay between field work and data collection and analytic and computational modeling. It is promoting this interplay that is the raison d'etre for the institute. This proposal has emerged organically from the joint research and academic efforts of the primary faculty over the past len to fifteen years. Giving these efforts a formal structure from which to operate and synergize is an idea whose time has come. Indeed, it is a cross disciplinary effort in a national and international growth area that is eminently fundable from a variety of sources.

The Institute is designed to operate initially primarily on the basis of thoughtful combining of current resources with only modest new investment (primarily in the form of a line for a quantitative ecologist hired in 2005 in conjunction with the Conter for Ecosystem Science and Policy). The Institute aims to be largely self-supporting and to expand its activities as it identifies and secures additional resources, through grants from both government agencies and private foundations.

PROPOSAL FOR A UNIVERSITY OF MIAMI INSTITUTE OF THEORETICAL AND MATHEMATICAL ECOLOGY

· INTRODUCTION

The University of Miami Institute for Theoretical and Mathematical Ecology (ITME) is an interdisciplinary venture proposed by faculty from the Departments of Mathematics, Computer Science, Blology, and the Rosenstiel School of Marine and Atmospheric Sciences. The purpose of the Institute is to address the urgent need for focusing the combined intellect of mathematicians, computer scientists and ecologists on significant ecological and environmental problems in both the pure and applied realms in terrestrial, marine and tropical ecosystems. The institute aims to create a distinctive intellectual environment in which the traditional guilf between mathematical and empirical ecology is overcome.

Ecology, whether marine or terrestrial, is a multi-disciplinary enterprise which depends upon an interplay of field work, data collection and analysis, experimentation, theoretical insight, analytical modeling and computational simulation. As such it draws upon physiological, population, community, ecosystems and evolutionary ecology as well as pure and applied mathematics, computational mathematics, resource economics, statistics and computer science. A successful researcher in ecology needs both a firm command of at least one of the disciplines integral to the field and the ability to collaborate synorgistically across disciplinary lines with other ecological and physical scientists.

The purpose of the Institute for Theoretical and Mathematical Ecology is to create a distinctive broadly-based world class research program that focuses the combined intellect of mathematicians, computer scientists and empirical ecologists on particular significant contemporary ecological problems, in both the pure and applied realms. The institute will create an environment for the development of interdisciplinary research dialogue and research teams. We have had experience working in this type of team. Our experience has been that the dialogue between empiricists and theoreticians creates a synergy that not only advances the ability of the empiricists to design and analyze empirical work, but also advances theory as new issues arise in the application of theory to data. Despite the urgent need for collaboration between mathematicians and empirical biologists to address emerging issues currently a relatively small proportion of mathematicians and ecologists regularly engage in joint research. A major cause Is that scientists have not generally been trained to work across the math/biology disciplinary boundary and have mostly had little experience communicating across this barrier. Nonetheless, at UM, we have been doing this on a small scale in a variety of formats during the last several years, including a some collaborative grants, publications, graduate student advising, a math/biology seminar speaker brought in annually, graduate courses, weekly symposia and

discussion groups. We have some experience on which to build, but we have not yet realized the full potential of what we could do in this field.

CHARTER

1. Mission

The purpose of the institute for Theoretical and Mathematical Ecology is to create a distinctive broadly-based world class research program that focuses the combined intellect of mathematicians, computer scientists and empirical ecologists on significant contemporary ecological and environmental problems in both the pure and applied realms in terrestrial, marine and tropical ecosystems and in so doing to develop a distinctive intellectual environment in which the traditional gulf between mathematical and empirical ecology is overcome.

2. Resource Availability and Budgetary Considerations

An important consideration in establishing any institute is whether library resources are available to support the program. In this case, the principal faculty believe that existing library resources in the Richter and Marine School libraries are sufficient for purposes of running ITME and ultimately an associated graduate program.

The Institute will serve in large part as a clearing house for research projects and proposals. Several such initiatives are currently underway:

- (I) Four ITME principal faculty are actively participating in the current (2004 2007; funding \$1.6 million) NiH funded Exploratory Center awarded through the University's Global Public Health Program. The focus of this award is planning for NiH's major Interdisciplinary Research Consortium (IRC) initiative. The IRC's represent major funding efforts intended to address very significant biomedical problems. Eight to nine awards, at \$3 million/year in direct costs for five years, will be awarded in the fall of 2007. The theme of the Exploratory Center at the University of Miami is "Vector-Borne Disease Control in Urban Environments." Presently, the Exploratory Center is preparing its IRC preproposal for submission on April 18th. A central aspect of the proposal is an R01 NiH proposal entitled "Ecological Modeling for Vector-Borne Disease Control in Urban Environments." At least four ITME principal faculty will be involved in this R01 and one will serve as P1. The proposal, if funded, will support 3 graduate students and two post docs for the ITME.
- (II) Arising out of the Exploratory Center efforts is the proposal "Linking Data to Models: the Spatial Ecology of the Dengue Vector, Aedes Aegypti, in Costa Rica and Trinidad" (2006-2011, total funding request

\$2.5 million), submitted to the joint NSF/NiH initiative on the Ecology of Infectious Diseases. Again four ITME faculty are participating in the proposal (one as PI, another as a Co-PI). The proposal, if funded, will support two graduate students and one post doc for the ITME.

- (ill) One ITME faculty is participating in an interdisciplinary project funded by the Global Environmental Facility and International Tropical Timber Organization entitled Conservation of Biological Diversity Through Improved Forest Planning Tools (2006-2011, total funding \$5.9 million). The project will provide faculty support and likely summer support for graduate students.
- (iv) One principal ITME faculty is the PI on the NSF Collaborative QEIB proposal "Collaborative research; habitat-stage elasticity, generation time, spatial dynamics, and clonal reproduction in random environments" (2006-2009, total UM funding request \$267K) in conjunction with colleagues at Stanford University. The proposal, if funded, will support one post doc and one graduate student for the ITME.
- (v) Three principal ITME faculty are participating in the interdisciplinary NSF sponsored Biocomplexity project "Coupled Natural and Human Dynamics in Coral Reef Ecosystems" (2001 2006, total UM funding \$727K). The project is a joint venture with the American Museum of Natural History.
- (vI) One principal iTME faculty is participating in the interdisciplinary NSF sponsored Biocomplexity project "Understanding and Modeling the Scope for Adaptive Management in Agrosystems in the Pampas" (2004 2008, total funding \$1.6 million).

The institute aims to be self-sufficient. Our initial on-going needs will be for web page development and maintenance, promotional materials, and some monies for short term visitors, programs and seminars. These needs are currently been met through the Department of Mathematics and the College of Arts and Sciences. We now have an appropriate intermediate term arrangement that addresses these needs. In the longer term, we expect to obtain outside funding that should enable us to expand the scope of our activities. The Institute's inaugural event, a workshop, was held January 7 – 10, 2005 on the RSMAS campus. The meeting, entitled "Workshop in Spatial Ecology: The Interplay between Theory and Data," was sponsored by the College of Arts and Sciences along with the Rosenstiel School and the Center for Ecosystems Science and Policy. 78 Individuals participated and the event was by common consent a great success.

3. Organization

a. Voting members of the institute for Theoretical and Mathematical Ecology at the University of Miami are designated by the term principal faculty.

Tenured, tenured- track and research faculty at the University of Miami are eligible to request 'principal faculty of the ITME' status. The criteria for awarding principal faculty status are demonstrated expertise in theoretical and/or mathematical ecology and interest in participation in interdisciplinary research and pedagogical activities in theoretical and mathematical ecology.

Expertise in theoretical and/or mathematical ecology can be evidenced in various ways. Among them:

- (i) publication of a recent scholarly article in a recognized peerreviewed journal in one (or more) of the fields of empirical, theoretical or mathematical ecology.
- (ii) participation in a recent externally funded research or pedagogical project in one (or more) of the fields of empirical, theoretical or mathematical ecology.
- (iii) significant recent graduate level curriculum development in one (or more) of the fields of empirical, theoretical or mathematical ecology.

(The charter principal faculty of the Institute of Theoretical and Mathematical Ecology are those listed in the proposal.)
Accordance of principal faculty status shall require the approval of a majority of the principal faculty of the institute at the time of the petition for principal faculty status. In the event that principal faculty status is not accorded by the principal faculty of the ITME, the applicant has the right of appeal to the Deans of the College of Arts and Sciences and the Rosenstiel School of Marine and Atmospheric Sciences. In such event, both Deans must agree that principal faculty status is warranted in order to override the decision of the principal faculty of the ITME.

b. The officers of the Institute for Theoretical and Mathematical Ecology shall consist of a Director and a three-member Steering Committee. Both the Director and the members of the Steering Committee must be principal faculty of the Institute. The Director of the Institute shall have primary responsibility for the operation and administration of the Institute in consultation with the Steering Committee.

- c. The Director of the institute for Theoretical and Mathematical Ecology shall be chosen by a majority vote of the principal faculty of the Institute, subject to approval by the Dean of the College of Aris and Sciences and the Dean of the Rosenstiel School of Marine and Atmospheric Sciences. The Director must be a tenured or tenured-track faculty member at the University. The Director shall be elected to an initial term of three years, with the possibility of a one-time renewal of three years. Such a renewal, if requested, is subjected to approval by a majority of the primary faculty of the institute and the consent of both Deans.
- d. The members of the Steering Committee shall be determined annually by vote of the primary faculty. All principal faculty of the institute other than the Director are eligible to serve on the Steering Committee.
- e. The principal faculty of the Institute for Theoretical and Mathematical Ecology must meet at least once during each semester of the academic year to discuss the business aspects of the Institute. The Director shall have the responsibility of calling the meetings of the principal faculty of the Institute. The agenda for the meetings of the principal faculty shall be determined by the Director of the Institute, subject to the approval of the Steering Committee.
- f. The performance of the Director of the Institute for Theoretical and Mathematical Ecology shall be reviewed annually by the Steering Committee, who shall report in writing to the principal faculty of the Institute at the time of their spring business meeting.
- g. Removal of the Director of the Institute prior to the end of the Director's elected term shall require the consent of % of the principal faculty of the Institute and of both Deans.
- h. Amendment of the rules of governance of the Institute for Theoretical and Mathematical Ecology shall require consent of % of the principal faculty of the Institute and of both Deans.

4. Detailed Budget for the ITME

	2006-2007	2007-2008	2008-2009
Visitors (Seminar, Longer Term / Grant Collaborations, Outside Committee Members, etc.	\$12,000	\$12,000	\$12,000
2. Graduate Student Travel	\$5,000	\$5,000	\$5,000
3. Webpage Maintenance	\$1,000	\$1,000	\$1,000
4. Mathematical Biosciences institute	\$2,000	\$2,000	\$2,000
affiliation TOTAL	\$20,000	\$20,000	\$20,000

5. Founding Principal Faculty of the ITME.

- 1. Dr. Jerry Ault, RSMAS
- 2. Dr. Stephen Cantrell, Mathematics
- 3. Dr. Chris Cosner, Mathematics
- 4. Dr. Don DeAngells, Blology
- 5. Dr. Carol Horvitz, Blology
- 6. Dr. Don Olson, RSMAS
- 7. Dr. Matthew Potts, Blology/CESP
- 8. Dr. Shigui Ruan, Mathematics
- 9. Dr. Dilip Sarkar, Computer Science

ANTICIPATED GRADUATE PROGRAM (TME)

A very important mechanism for implementing the goals of the Institute will be the ultimate development of an interdisciplinary graduate program with the goal of training "bridge-crossers." Our graduates will not only be thoroughly trained within their disciplines, but also will receive training in communicating across disciplines and working in teams to solve problems. We (the principal faculty listed) met regularly as an interdisciplinary team during the spring semester of 2003 to design a graduate program for the ITME, including a unique core course, which we also designed and offered on a trial basis in the 2004-2005 academic year jointly listed as BiL630/MTH680. We propose to provide world class graduate training which simultaneously emphasizes both the ecological and mathematical sciences. Our design creatively uses the degree programs of existing departments and schools and has been approved by the Graduate Council. Recognizing the broad range of scientific and mathematical efforts that are needed in modern ecology, the program will enable students to take a primary degree in biology, marine science or mathematics. Students taking a

primary degree in biology or marine science will take a secondary degree in mathematics, while students electing for a primary degree in mathematics may take a secondary degree in biology or marine science beyond the existing dual Master's provision. To our knowledge, the Graduate Program of the ITME would mark the first time so advanced a multi-disciplinary degree is available on an organized institutional basis at the University of Miami. Indeed, this approach may well serve as a paradigm for other programs.

The TME program has been designed to coordinate existing faculty, resources and courses in the relevant units around a common core course so as to minimize the need for extensive new resource commitments from the University. Indeed, most of the components that are necessary are already in place or have been approved by the University. There are at present 9 principal tenured or tenure-track faculty committed to the TME (3 in Mathematics, 1 in Computer Science, 3 in Biology, 2 from RSMAS). The most significant new resource commitment needed to assure the success of the TME was that of hiring a quantitative ecologist with a primary appointment in the Department of Biology. This position was approved by the University as a cooperative venture among the Department of Biology, the University's Center for Ecosystems Science and Policy (CESP), and the principal faculty of the proposed institute. Up to 60% of the salary and start-up costs for the position come from CESP. The search to fill this position concluded successfully this past spring and Dr. Mathew Potts joined our faculty Fall 2005.

In order to enroll in the Graduate Program in Theoretical and Mathematical Ecology, students would apply directly to a Graduate Admissions Committee for the Graduate Program in Theoretical and Mathematical Ecology. Potential admittees must then be accepted for graduate study in one of the relevant units (Mathematics, Biology, Marine Science). Students could be accepted into the program either upon initial application for graduate study at the University or after matriculation, subject to the approval of the principal faculty of the Institute. A more detailed description of the Graduate Program is available upon request.



September 18, 2006

Dr. Michael Halleran Dean College of Arts and Sciences The University of Miami

Dear Dean Hulleran:

On behalf of a group of colleagues from the College of Arts and Sciences and the Rosenstlel School of Marine and Atmospheric Sciences, I wish to submit the enclosed proposal for an Institute for Theoretical and Mathematical Ecology (ITME) for consideration by the College of Arts and Sciences. The group of faculty involved in the development of ITME have been working together on an informal basis for well over a decade and working specifically on establishing the ITME since the fall of 2002. Individuals from three Departments within the College (Mathematics, Blology, Computer Science) and two Divisions within the Marine School (Marine Biology and Fisherles, Meteorology and Physical Oceanography) have played important roles in our efforts and represent a broad interdisciplinary coalition. As discussed in detail in the proposal, coology is an increasingly quantitative field of inquiry that draws upon expertise from beyond a single discipline or department or indeed college. As a result, we believe that a formal organizational structure that builds upon and enriches existing intradepartmental and inter-departmental offorts is needed to utilize more fully and more effectively the considerable expertise in ecological issues and questions that we have at the University of Miami, ITME will provide a mechanism for enhancing research, programmatic and pedagogical efforts within the University community and for promoting cooperation with other units on issues of common interest. Indeed, units such as the Center for Ecoscience and Polley and Global Public Health Program at the School of Medicine have already expressed very strong interest in collaborating with ITMB. ITME will also serve as a visible interface from ecology at UM to the selentific community at large and to extramural funding agencies. Many lasues in ecology need to be addressed on a large scale and funding opportunities in the area are to a considerable extent organized around this principle. Indications that a University takes research in the field seriously and is willing to invest its resources there increase its

> Department of Mathematics College of Arts & Sciences RO, Box 249083 Coral Gables, Plottoin 33124-4250 . 305-284-2575 Paxi 305-284-2648 e-mall: math@math.mlamt.edu

ohances at obtaining highly competitive and highly lucrative larger scale funding. To this end we anticipate that the relatively modest start up funds that the University has committed to ITME will pay dividends in terms of outside support.

To date the ITMB proposal and the proposal for an associated Graduate Program in Theoretical and Mathematical Beology (TME) have been scrutinized and approved by the faculties of the Departments of Mathematics and Biology, as well as by the faculty of the Rosenstiel School. The TME Graduate Program has been approved by the Graduate Council. Letters to this effect are included with the proposal. I look forward to working with you and our colleagues in the College to advance this exciting endeavor.

Sincerely yours,

Stephen/Cantrell, Ph. D. Professor of Mathematics



TO:

Michael Halleran

Dean, College of Arts and Sciences

FROM:

Otie B. Brown 🔊

Dean

DATE:

September 15, 2006

SUBJECT:

Institute for Theoretical and Mathematical Ecology

Following up our various e-mail exchanges, I strongly endorse the creation of the interdisciplinary institute for Theoretical and Mathematical Ecology (ITME). There is eignificant faculty interest and participation from Rosenstiel School faculty. Success of this effort should lead to new and improved models of ecosystem function, which ultimately would leverage improved management strategies for marine and coastal ecosystems.

Further, to accelerate the activities of the ITME, the Rosenstiel School will provide \$10,000 p.a. in discretionary funding to the ITME for the support of meetings, travel and faculty collaboration activities. We wish you a speedy startup of this institute and look forward to its success.

po:

Thomas LeBlano William Green Donald Oleon Jerald Ault Laurence Smith Jay Blaire



Dr. Michael Halleran, Dean College of Arts and Sciences The University of Miami

Dear Doan Halleran,

I am writing to inform you that the Biology Department faculty have reviewed and voted unanimously to approve the proposal to create the liastitute of Theoretical and Mathematical Ecology (ITME), and to introduce a new program in Mathematical

ITME is an innovative idea that directly promotes interdisciplinary and directly enhances graduate training. Both interdisciplinary studies and graduate program improvement are worthy fooi in the College of Arts and Sciences, and more broadly at the University level. ITME will link graduate education and research across departments and disciplines. Moreover, it will be at the forefront of in the field of ecology; mathematical ecology as a discipline is taking the basic research to a higher level, because of its ability to synthosize abundant data networks and model highly complex phenomena effectively. It is an area highly likely to attract outside funding. It is unequivocally worthy of UM support, as it will build on our not inconsiderable current strengths in biology, math and social sciences to create an institute that will be internationally recognizable.

Sincerely, 1

Prof. Kathryn Tosney, Chair

Department of Biology, University of Miami P. O. Box 249118, Coral Gables, FL 33124

Phono: 305-284-3973 Fax: 305-284-3039

ce: Steven Sapp, Chair of Faculty Senate

Department of Biology RO, Box 249118 Coral Gables, Biorida 33124-0421 Phone: 305-284-3973 Fax: 305-284-3039



Office of the Provost

MIMORANDUM

To:

Stophon Controll, Ph.D Department of Muthematics

From:

Steven G. Ulimann, Ph.D.
Dean of the Graduate Solicol &
Vice Proposition Results 166 Vice Provest for Paculty Affairs and University Administration

Subject

INSTITUTE & GRADUATE PROGRAM IN THEORITICAL & MATHEMATICAL ECOLOGY (TME)

I am pleased to Inform you that the Proposal for an Institute for Theoretical and Mathematical Boology (ITMB) and Graduate Program in Theoretical and Mathematical Boology (TMB) was "approved by the Graduate Council in concept" (10-yes-0-no-0-abstentions) January 19, 2006.

A copy of the proposal is available upon request and the meeting minutes are attached.



September 6, 2006

Dr. Michael Halleran Dean, Arts & Sciences

Dear Michael,

The Department of Mathematics and I would like to second Dr. Tosney's support for the ITME program and the new graduate program in mathematical ecology. Mathematical ecology is an increasingly important area of science, interdisciplinary in nature, which is especially relevant for the University of Miami. We are on the ocean and near the Everglades and Lake Okechobee. We currently have at Miami substantial exportise and interest in these areas in the biology department, in the mathematics department, and at RSMAS, among others, as well as intrest in the public policy aspects of these issues. This is an opportunity to do something important, building on existing strengths throughout the University. This will easily attract outside funding and enhance the reputation of Miami. ala 300

Alan Zame

Chair, Department of Mathematics University of Miami

Department of Mathematics College of Aria & Sciences RO, Box 249085 Coral Gables, Plorida 38124-4250 305-284-2575 Pax 305-204-2048 o-maili math@math.miaml.edu

TO:

Thomas J. LeBlanc

Executive Vice President and Provost

FROM:

Michael R. Halleran

Dean

SUBJECT:

Institute for Theoretical and Mathematical Ecology

DATE:

September 26, 2006

At the meeting of the College faculty yesterday, September 25, 2006, the faculty voted unanimously in favor of the establishment of an Institute for Theoretical and Mathematical Ecology.

I ask that you and the Academic Deans Policy Council support and approve this proposal. A copy of the proposal is attached for your convenience. Should you have any questions or require additional information, please let me know

cc: Stephen Cantroll, Mathematics



Executive Vice President and Provost

MEMORANDUM

December 12, 2006

To:

Steve Sapp

Chair, Faculty Senate

From:

Thomas J. LeBlanc, Ph.D. Executive Vice President and Provost

Subject:

Institute of Theoretical and Mathematical Ecology

I write to confirm that the Deans approved the establishment of the Institute of Theoretical and Mathematical Ecology at the December 6th meeting of the Academic Deans' Policy Council.

TL/em

Dean Michael Halleran cc:

January 31, 2007 Faculty Senate minutes

The meeting, held in the Hurricane 100 Room of the BankUnited Center, opened at 3:30.

CHAIR'S REMARKS

In addition to the comments included in his memorandum to Senators, the Chair

- introduced and welcomed Iris Barrios, previously of the Employee Benefits Department, who is the new Secretary of the Faculty Senate.
- introduced and welcomed Elena Flores, previously of the Dean's office in the College of Arts and Sciences, who is the new Secretary to the Secretary of the Faculty Senate.
- Honored the death of Dr. Carroll Truss.

PROVOST'S REMARKS

The Provost presented a number of items.

Several changes to the current tenure and promotion procedures are under consideration by an ad hoc joint faculty-administration committee.

- The Board of Trustees received an update in January from the Provost in regard to strategic planning, in which he presented the goal of making the University of Miami an AAU-quality institution in the next 10 years. There will be more discussion of this matter at the Board meeting in April.
- Faculty will receive information and a survey for the NRC review of PhD programs. This is very important for ranking purposes. Please contact Mary Sapp's office if a survey is not received.

The Provost entertained questions from the floor.

APPROVAL OF TODAY'S AGENDA

The meeting agenda passed unanimously.

APPROVAL OF MINUTES OF OCTOBER 18, 2006

The minutes of November 29, 2006, passed unanimously.

REMARKS BY JOE NATOLI, SENIOR VICE PRESIDENT FOR BUSINESS AND FINANCE

Joe Natoli, Senior Vice President for Business and Finance, shared information on the UMCAD approval process. The Master Plan began with 25 items for which we sought Commission approval. However, the Commission started by withdrawing three or four of these items from the original 25 and now there have been several more taken out. He emphasized that without an UMCAD agreement, the University will not grow. He concluded by saying that on February 13, 2007, UMCAD will be presented at the City Commission meeting, and today at 6:00 p.m., a "neighbors meeting" about UMCAD will be held in the School of Architecture for those who would like to learn more.

REMARKS BY DEAN COLSON

Dean Colson, Chair of the University of Miami Board of Trustees, made some remarks and entertained questions from the floor.

INTRODUCTION OF DAVID A. RIVERO, CHIEF OF THE UNIVERSITY OF MIAMI POLICE DEPARTMENT

Chief Rivero started with an introduction about his past work experience and stated that he was very pleased to be a part of the UM community. He provided a brief summary of a future crime-mapping process that is to be implemented at the University very soon. This process will allow mapping of crimes happening all around campus and will first be introduced in the City of Coral Gables. Chief Rivero also stated that he would like to focus on developing training programs for police from around the country because UM has the expertise to do such training, substantial funding is available through various grant programs, and officers will be happy to come to Miami in the winter. He also informed the Senate that the University has a contract with Vanguard Security and much of the routine security work is handled by these guards..

ESTABLISHMENT OF THE UNIVERSITY OF MIAMI INSTITUTE FOR THEORETICAL AND MATHEMATICAL ECOLOGY

Dr. Cantrell stated that the Institute would be soliciting and encouraging participation from across the University. *A motion was made* to approve the proposal. *The motion passed unanimously*.

CHANGE IN WORDING OF FACULTY MANUAL SECTION ON ACADEMIC DEANS' ADMINISTRATIVE COUNCIL

After discussion, the *Senate voted unanimously* to approve the proposed change to the Faculty Manual substituting the new title "Senior Vice Provost and Dean of Undergraduate Education" for "Vice Provost for Undergraduate Affairs."

2007 FACULTY SENATE APPORTIONMENT

As required by Faculty Manual section B3.3, "From the data available on November 15 of each year the Chair shall recommend, and the Senate approve, an apportionment of senators such that a school with faculty tenured in that school shall receive N senators if its voting faculty (F) is equal to or exceeds the value of a constant (K) times the sum of the sequence two plus three plus four . . . up to N: that is, $F \ge [2+3+4+...N] \div K$. The value of the constant (K) shall be selected each year by the Senate upon recommendation of the Chair such that the Senate shall consist of 30-50 voting members. In any apportionment, the Graduate School shall have exactly two senators." After discussion, the Senate voted unanimously to accept the apportionment using the constant of ten, giving the Senate a total of 48 members, a change from the current 47, with the additional Senator to come from the School of Architecture.

The meeting adjourned at 5:35 p.m.

Iris Barrios Secretary of the Faculty Senate

January 31, 2007 EXECUTIVE SESSION MINUTES

Executive Session

Distinguished Faculty Scholar Award Recommendation – Susan Haack
Dr. Susan Haack, Professor in the Arts and Sciences Dept, presented the recommendation for the 2007 Faculty Senate Distinguished Faculty Scholar Award Recommendation. Following discussion, Dr. Douglas Anderson, Professor in the Department of Ophthalmology, was selected. A motion was made to approve the recommendation. The motion passed unanimously.

FACULTY SENATE MEETING Hurricane 100 room-Bank United Center January 31, 2007 - 3:30 P.M.

AGENDA

*FOR YOUR CONVENIENCE, CLICK HERE FOR A COMPLETE AGENDA PACKET (just click and print)

A.		Introductory Matters	Approx Time
	A1.	#Chair's remarks	3:30
	A2.	Provost's remarks	3:35
	A3.	Approval of today's agenda	3:45
	A4.	#Approval of minutes of November 29, 2006	3:55
	A5.	Remarks by Sr.VP. Business & Finance, Joe Natoli	4:05
	A6.	Remarks by Dean Colson, Chair of Board of Trustees	4:15
	A7.	Other Announcements	4:25
В.		General Matters	
	B1.	David A. Rivero, Director of Public Safety to introduce himself.	4:35
	B2.	#Establishment of the University of Miami Institute For Theoretical and Mathematical Ecology – S. Cantrell	4:45
	В3.	#Change in wording of FM section on Academic Dean's Administrative Council.	4:55
	B4.	#2007 Faculty Senate apportionment	5:05
C.		Other Business	
D.		Executive Session	
Ε.	D1.	Distinguished Faculty Scholar Award recommendation – Susan Hacck Adjournment	5:15

related material linked in Adobe Acrobat format. You must have Adobe Acrobat Reader installed on your computer in order to access the material. <u>Click here</u> for installing instructions.

General Welfare Committee January 17, 2007 3:30 p.m. Law Library Conference room, 4th floor

- 1. Chair's remarks (3:30)
- 2. # Extension of Probationary Period for Tenure in the MSOM A. Mian (3:40)
- 3. Distinguished Faculty Scholar Award Committee recommendation M. Ginsberg (3:55)
- 4. # Establishment of the University Of Miami Institute For Theoretical and Mathematical Ecology S. Cantrell (4:10)
- 5A. # Clarification between "may" and "shall" regarding centers and institutes in FM sections C18.2.1 and C18.2.2 (4:25)
- 5B. # Change in wording of FM section on Academic Dean's Administrative Council.
- 6. # Centers and Institutes approval process. (4:35)
- 7. # Senate Apportionment (4:50)
- 8. # Information Item: Fall 2007 and Spring 2008 Senate and GWC meeting dates.

related material included

NOTE: Copied below are additional items that will be on the January, 2007 Senate agenda

- -Introduction of:
 - o Randy Shannon, Football Coach
 - o David Rivero, Chief of Police