**ANNUAL REPORT OF FACULTY MEMBER AT FRANCIS MARION UNIVERSITY**
**2016-2017 Academic Year**

NOTE: Submit your Annual Report to the Provost/Dean of the College of Liberal Arts. Use additional pages as needed.

| | Initials | Date |
|---|---|---|
| Faculty Member | [redacted] | 4/10/2017 |
| Provost/Dean of the CLA | A.K | 5-16-17 |

| | |
|---|---|
| Name: | [redacted] |
| Rank: | Chair and Professor |
| Department/School | [redacted] |

## I. Courses Taught

Late Spring/Summer Session I/II 2016

| Department | Course | Title | Enrollment | Lab | Lecture |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |

Fall 2016

| Department | Course | Title | Enrollment | Lab | Lecture |
|---|---|---|---|---|---|
| Math | 131 | Mathematical Modeling | 25 | | X |
| Math | 311 | Multivariable Calculus | 13 | | X |
| | | | | | |

Spring 2017

| Department | Course | Title | Enrollment | Lab | Lecture |
|---|---|---|---|---|---|
| Math | 111-B | College Algebra II | 28 | | X |
| Math | 111-C | College Algebra II | 28 | | X |
| Math | 497 | Special Topics: Preparation for Industrial Careers (PIC) Math | 3 | | X |

## II. Teaching Development

I taught Multivariable Calculus (Math 306) for the first time in fall. Since the course involved vectors, graphs, and surfaces in 3-dimension, I used Geogebra software to illustrate concepts.

I taught a special topics course Preparation for Industrial Careers (Math 497) to prepare students for industrial careers by engaging them in research problems that come directly from industry. The PIC Math program aims to increase awareness among

mathematics faculty and undergraduate students about non-academic career options and provide research experience by working on real problems from business, industry and government.

## III. Scholarly Activities

I served as an AP Calculus Reader for College Board to grade AP Calculus exams in Kansas City (2-8Jun). AP Readers evaluate and score AP students' free-responses ensuring that students receive AP grades that accurately reflect college-level achievement in each discipline.

I attended a Preparation for Industrial Careers (PIC) Math Faculty Training Workshop (23-27May). PIC Math is a Mathematical Association of America (MAA) and Society for Industrial and Applied Mathematics (SIAM) program is funded by the National Science Foundation (NSF grant DMS-1345499). The Faculty Training Workshop provides information on non-academic careers and internships to share with students, guidance on developing business and industry connections and partnerships, exposure to mathematical and statistical problems that arise in industry, and training on how to develop skills in students that are valued by employers.

## IV. Professional Service

For service to discipline, I was a regional judge (15Dec) and national judge (7Jan) of the High School Mathematical Competition in Modeling (HiMCM). HiMCM offers high school students the opportunity to compete as a team to present solutions to real-world modeling problems. The regional judging was supervised by Dr. Richard West at FMU and the national judging was supervised by Dr. William Fox at the Joint Mathematics Meetings in Atlanta.

I was a regional judge (19-24Mar) and national judge (31Mar-2Apr) of the collegiate Mathematical Competition in Modeling (MCM). The MCM is an international contest for college undergraduates that challenges teams of students to clarify, analyze, and propose solutions to open-ended problems. The contest attracts diverse students and faculty advisors from over 900 institutions around the world.

I was a competition judge for Moody's Mega Math (M^3) Challenge (5-14Mar). M^3 is a mathematical modeling contest for high school juniors and seniors in which students gain the experience of working in teams to tackle a real-world problem under time and resource constraints akin to those faced by industrial applied mathematicians.

As a member of the MAA Committee on Minicourses, I was the minicourse coordinator at MathFest (3-7Aug) in Columbus, OH. As a member of the MAA Committee on Teaching Undergraduate Mathematics (CTUM), I attended a Focus Group on the draft of the curriculum standards at the Joint Mathematics Meeting (4-9Jan) in Atlanta.

With funding from a Ready to Experience Applied Learning (REAL) grant, I took three students to the JMM in Atlanta. I also took four students with Dr. Justin Sims to MAA

Southeastern Section Conference (9-12Mar) at Mercer University to participate as a Math Jeopardy team.

For service to the University, I presented the Mathematics session at Open House (14Nov) and participated in the University's Scholarship Interviews (21Feb) and Heart of the Pee Dee Scholarship Interviews (8Mar).

For service to the community, I was a stage judge at the Pee Dee Regional High School Mathematics Tournament (5Dec).

## V. Professional Advancement

## VI. Administrative Duties and Accomplishments

Working with Drs. George Schnibben and Sophia Waymyers, I compiled annual (31May) and interim (1Mar) Institutional Effectiveness Reports for the Mathematics Program and General Education Requirements.

I submitted a review of the teaching, scholarship, and service of Dr. Menassie Ephrem for his promotion to Associate Professor of Mathematics at Coastal Carolina University.

As Chair of Mathematics, I visited the classrooms of new faculty members, Instructor Johannah Maynor and Michael Del Vecchio and tenure-track Assistant Professors Dr. Julian Buck, Dr. Nicole Panza and Dr. Justin Sims. I completed the Departmental tasks related to summer Orientations such as placing all incoming students into an appropriate mathematics course, discussing placements with concerned students and parents, adjusting enrollment levels in mathematics classes, and advising mathematics majors.

I met with Dr. Jennifer Kunka, Associate Provost for Advising, several times during the academic year to discuss ways to improve retention and success of students in mathematics courses.

**FRANCIS MARION UNIVERSITY**
**ANNUAL FACULTY REVIEW AND EVALUATION**
**2016-2017 ACADEMIC YEAR**

On the form below, the individual faculty member should be assessed with respect to teaching, scholarly activities, and professional service, and make recommendations and/or comments which are appropriate. Use additional pages as needed.

Date:_____May 16, 2017_____

Name: _[redacted]_____ Rank: ____ Professor, Chair_____

Department/School: _____Mathematics_____

**I. Assessment:**

1. Teaching:

Tom is actively involved in the classroom. He taught a new course in fall (multivariable calculus) where he incorporated new software to illustrate concepts in this course. He also attended training to introduce a new course to the department "Preparation for Industrial Careers" and received a grant to teach it in spring.

2. Scholarly Activities:

Tom has not had any publications in the past year but has attended training in "Preparation for Industrial Careers". Tom's interests seem to be leaning towards math education in both scholarly activity and service.

3. Professional Service:

Tom does a good job as chair of the Math Department and appears to enjoy the full support of his faculty. He is also involved with the Mathematical Association of America and serves on a number of committees including the Committee on Teaching Undergraduate Mathematics.

**II. Summarize the above in an over-all evaluative statement:**

Tom is a good department chair who is diligent in his efforts to provide opportunities for all students. Scheduling can be difficult for the large number of students taking general education classes in math and Tom does a great job of handling this.

**III. Overall Annual Performance Rating (1-4 scale):**

_X_4 Highly Meritorious ___3 Meritorious ___2 Satisfactory ___1 Unsatisfactory

This evaluation was made on the basis of (check all appropriate items):

| | | | |
|---|---|---|---|
| X | Day-to-Day Observations | | Review of Student Performance |
| | Review of Course Syllabi | | Informal Student Evaluation |
| | Formal Student Evaluations | | Classroom Visitation(s) |
| X | Other (please list) Annual Report | | |

The above evaluation was shared with me 7/5/2017 [redacted]

*Date* *Signature of Faculty Member*

Submitted by: Peter King 5-16-17

*Signature of Provost/Dean/Department Chair* *Date*

Reviewed by:

*Position* *Signature of Reviewer* *Date*