

Academic Senate

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<http://academicsenate.calpoly.edu/>

Meeting of the Academic Senate Executive Committee

Tuesday, September 24 2013

01-409, 3:10 to 5:00pm

- I. **Minutes:** none.
- II. **Communication(s) and Announcement(s):**
- III. **Reports:**
 - A. Academic Senate Chair:
 - B. Special Reports:
 - 1. David Conn: report on "Shakeout"
 - 2. Josh Machamer: report on General Education Governance Board Flexibility
 - C. President's Office:
 - D. Provost:
 - E. Statewide Senate:
 - F. CFA:
 - G. ASI:
- IV. **Business Item(s):**
 - A. **Resolution on Dissolving the Academic Senate Curriculum Graduate Subcommittee:** Schaffner, chair of the Curriculum Committee (pp. 2-3).
 - B. **Appointments to Academic Senate committee vacancies for 2013-2015:** (pp. 4-5)
 - C. **Appointments to university committees for 2013-2014:** (p. 6).
 - D. **Appointment of Academic Senate replacements:**
 - CAFES: replacement for Wayne Howard WQ 2014
 - Replacement for Bob Delmore 2013-2014
 - Replacement of Chris Dicus as caucus chair 2013-2014
 - OCOB: Replacement for Tad Miller FQ 2013
 - CSM: Replacement for Robert Clark 2013-2014
 - E. **Approval of Procedural Guidelines for the Academic Senate Budget and Long Range Planning Committee:** (pp. 7-8).
 - F. **Resolution on Program and Area Name Change for the Industrial Technology Program and Area of the Orfalea College of Business:** Eric Fisher, OCOB caucus chair (p. 9)
 - G. **[TIME CERTAIN 4: 45] Resolution on Proposal for the Establishment of the Kenneth N. Edwards Western Coatings Technology Center:** Ray Fernando, Chemistry & BC Department (pp. 10-18).
- V. **Discussion Item(s):**
 - [TIME CERTAIN 4: 35] Continuation of Dustin Stegner as Vice Chair for winter and spring 2014 (forward for full Senate discussion and vote).**
- VI. **Adjournment:**

Adopted:

**ACADEMIC SENATE
of
CALIFORNIA POLYTECHNIC STATE UNIVERSITY
San Luis Obispo, CA**

AS-__-13

**RESOLUTION ON DISSOLVING THE ACADEMIC SENATE
CURRICULUM GRADUATE SUBCOMMITTEE**

1 WHEREAS, AS-724-11 (Resolution on the Establishment of a Subcommittee of the Academic Senate
2 Curriculum Committee to Review Graduate Curricula) established a subcommittee of the
3 Academic Senate Curriculum Committee to Review Graduate Curricula; and; and
4

5 WHEREAS, The anticipated benefits of having a separate level of review such as thoroughness and
6 efficiency have not been fully realized; and; and
7

8 WHEREAS, Academic Senate Curriculum Committee (ASCC) membership formally includes ex
9 officio graduate representation via the Director of Graduate Education; and; and
10

11 WHEREAS, Current ASCC voting members come from departments that offer graduate programs or
12 are faculty that have served on thesis committees; therefore be it; and
13

14 RESOLVED: That the Academic Senate dissolve the Graduate Subcommittee of the Academic Senate
15 Curriculum Committee; and be it further; and be it further
16

17 RESOLVED: That the *Bylaws of the Academic Senate* be amended as follows:

VIII. COMMITTEES

H. COMMITTEES

1. Curriculum (and its subcommittees: Curriculum Appeals Committee,
~~Graduate Programs Subcommittee~~, and U.S. Cultural Pluralism
Subcommittee)

I. COMMITTEE DESCRIPTIONS

2. Curriculum Committee

(a) Membership

College representatives shall be either the current chair or a current member of their college curriculum committee. The Professional Consultative Services representative shall be an academic advisor from one of the colleges. Ex officio members shall be the Provost or designee, the ~~Dean of Research~~ and Director of Graduate

~~Programs~~ Education or designee, the Vice Provost for Information Services/Chief Information Officer or designee, a representative from the Office of the Registrar, and an ASI representative.

(b) Responsibilities

The Curriculum Committee evaluates curriculum proposals from departments and colleges before making recommendations to the Academic Senate. In addition, the committee makes recommendations to the Senate on University requirements for graduation, general education, learning objectives, and cultural pluralism; provides library oversight as it relates to curriculum; and addresses any other curriculum-related matter referred to it by the Senate, Senate Chair, or Executive Committee. The chair of the Curriculum Committee shall be responsible for coordination of curriculum review with the Office of the Registrar.

Curriculum Appeals Committee

(See AS-711-10 for description of the Curriculum Appeals Committee and curriculum proposal appeals process.)

Graduate Programs Subcommittee

~~There will be a standing subcommittee of the Academic Senate Curriculum Committee responsible for the review of proposals for new/revised graduate courses and programs. The Graduate Programs Subcommittee shall not be comprised of a subset of the Curriculum Committee members, but instead, the subcommittee shall include one faculty member from each college with experience in graduate level teaching and supervision, the chair of the Academic Senate Curriculum Committee (or a designee of the chair), and as an ex-officio member, the Dean of Research and Graduate Programs. The Graduate Programs Subcommittee will forward recommendations regarding graduate courses and programs to the Academic Senate Curriculum Committee, which will consider them before making its recommendations to the Academic Senate.~~

09.19.13 (gg)

Vacancies for 2013-2015 Academic Senate Committees

College of Agriculture, Food and Environmental Sciences

FACULTY AFFAIRS COMMITTEE
GE GOVERNANCE BOARD 2013-2016
INSTRUCTION COMMITTEE 2013-2014

College of Architecture and Environmental Design

FACULTY AFFAIRS COMMITTEE
GRANTS REVIEW COMMITTEE

College of Engineering

DISTINGUISHED TEACHING AWARD COMMITTEE 2013-2014
FACULTY AFFAIRS COMMITTEE
INSTRUCTION COMMITTEE 2013-2014

College of Science and Math

CURRICULUM COMMITTEE
John Walker, Statistics

Orfalea College of Business

CURRICULUM COMMITTEE 2013-2014
DISTINGUISHED SCHOLARSHIP AWARD COMMITTEE 2013-2014
Steve Hamilton, Economics (9 years at Cal Poly) Tenured

I actively publish in high-quality economics journals and value research activities on campus, both in terms of advancing the professions in which we serve and in shaping curriculum to better serve our students. I am willing to serve on the DSAC, because I believe it is essential to reward research on campus and to direct the award to the deserving faculty that actively promote research at Cal Poly.

FACULTY AFFAIRS COMMITTEE 2013-2014
GRANTS REVIEW COMMITTEE
INSTRUCTION COMMITTEE 2013-2014

Kathryn Marshall, Economics (6.5 years at Cal Poly) Tenure track

As a tenure-track professor since 2007, I have served in several areas of university governance, including in my own area of Economics and at the university level as a member of the Registration and Scheduling Committee. At present I am serving within our college as a member of the Undergraduate Programs Committee. However, I have had no involvement with the Faculty Senate and I wish to become more familiar with this unique and important part of university governance through committee service. The Instruction Committee is of particular interest to me since its decisions directly affect our students' experience at Cal Poly. I am a dedicated teacher and I have also served as Faculty Adviser to our Economics student club. In these roles I have come to recognize how important the influence of university policy can be and I am eager to contribute to policy which enhances the learning experience of Cal Poly students.

As an economist, I believe my skills and interests directly pertain to the upcoming agenda of the Instruction Committee. In particular, the formulation of a quantitative analysis goal in the University Learning Objectives and the review of Conflict of Interest in the Assignment of Course Materials are both areas which would benefit from my background of teaching and research in economics.

RESEARCH, SCHOLARSHIP AND CREATIVE ACTIVITIES COMMITTEE

Professional Consultative Services

CURRICULUM COMMITTEE
DISTINGUISHED TEACHING AWARD COMMITTEE
GRADUATE PROGRAMS SUBCOMMITTEE
INSTRUCTION COMMITTEE

Chair for Sustainability Committee

Campus Climate Study Working Group – 1 vacancy from CLA

Johanna Rubba, English (18 years at Cal Poly) Tenured

This is a timely committee for several reasons. The budget situation has resulted in numerous pressures and changes which have highlighted administration/employee relationship problems (such as transparency, mentioned in the Conference Week opener on 9/16). Also brought up in the opener is Cal Poly's ongoing struggle to become more diverse in all its populations. A happy university requires the needs and desires of all stakeholders to be heard and responded to, and those stakeholders need to have some power in decision-making. Everyone who participates in the life of the university must know they are a member of a community, not just a cog in a fragmented institution.

As a faculty member of long standing, I have lived through several crises, both general (e.g., strike votes, hate incidents) and individual (a promotion denial, witness to department losses due to the lack of a partner-hire program, poor handling of some internal appointments and dismissals). I have lived through PSSIs, FMIs, and two rounds of Equity salary adjustments. So I have seen climate issues from a faculty, and, indirectly, student perspective. I know that our campus is an unhappy one in some important ways. This working group can lay the foundation for effective actions to create a real community. This is a worthy cause.

You will see from the summary below that I have a good deal of service experience. Most of this experience derives from my deep interests in diversity and faculty rights, and in how these come together. Other committee experiences have given me a wide picture of how the university works. I am also, perhaps, rare among my colleagues in enjoying service work. Committee work can be collegial; it should be focused; and it has a substantive outcome. I've done well with it and consider it important in being a well-rounded member of a university community. It is essential to understanding one's position in the whole.

Here is a summary of most of my service experiences at Cal Poly.

Systemwide:

Since 2007: Representative to the California Faculty Association's Council for Affirmative Action

□ Chair of the Disabilities Caucus within the Council for Affirmative Action

Being a member of the Council keeps me informed of diversity issues throughout the system (e.g., a current move on some campuses to dissolve or dilute Africana and/or ethnic studies programs), as well as current concerns of marginalized groups or special-interest groups (teacher education, LGBT, Asian/Pacific Islander, etc.) Under my own initiative, I am carrying out a systemwide study on faculty experiences with disability.

Cal Poly, university level:

Since 2004: member of the Executive Board of the local chapter of the California Faculty Association

I have participated in informational pickets, membership recruitment, initiating discussions of relevant issues in my college, keeping my department informed of union activities, and informing my colleagues of contract requirements as needed. I have attended nearly every biannual Assembly and biennial Equity Conference since joining. My disability study will provide important basic data for handling disability issues systemwide.

o '98-'02, CLA Academic Senator

o '03, US Cultural Pluralism Subcommittee

o '04-'05, University Registration and Scheduling Committee (as Cal Poly moved to online registration)

College of Liberal Arts:

o Fall 2012, College Leave Committee

English Department:

Chaired:

□ '03-'05, Linguistics Program Review Subcommittee

□ '04-present, Linguistics Committee

□ Winter '09, Ad Hoc Student Evaluation Committee, charged with revising our course evaluation form.

Since '07, a member of our Graduate Committee

I served at various times on our Curriculum Committee and on several search committees.

I know that the role of this committee is to consider campus climate from all perspectives, not only from that of faculty or of marginalized groups. I also know that, if I become a member of the group, I will be representing the College of Liberal Arts, not the English Department, and not the union. Being in the working group would give me an opportunity to balance my principles

Vacancies for 2013-2014 University Committees

ACADEMIC ASSESSMENT COUNCIL – 7 representatives, CAFES, CAED, OCOB, CENG, and PCS vacancies Seth Igarta, Career Services (3 years at Cal Poly) - PCS

Throughout my 13-year career in education, I have been highly involved in assessment. Starting at the secondary level as a teacher serving on several WASC committees, to chairing my academic department aligning curriculum and assessment to state and federal standards, to serving on special assignment as a temporary district-wide Assessment Coordinator, I've established a background in assessment. At Cal Poly, I was a part of the most recent WASC review and have been a part of several CAS reviews. In Career Services, I coordinate, review and publish our annual Graduate Status Report (GSR).

My overarching goal with the Academic Assessment Council is to apply and grow my knowledge, skill and assessment experience. My foremost intention is to collaborate with council members to positively support our assessment efforts campus wide, and to effectively contribute to the coordination, review and reporting of our assessment outcomes to the campus community.

Stern Neill, Marketing (5 years at Cal Poly) Tenured - OCOB

Based on experience in assessment and accreditation, I have become acutely aware of assurance of learning processes and potential outcomes, particularly through work on my college's Undergraduate Programs Committee and AACSB's Continuous Improvement Review. I have also been recently appointed to a newly created position at my college, Faculty Director of Curricular Assessment and Innovation and am tasked with improving the curriculum and making the assessment process effective and efficient for the six degree programs in the college.

My pedagogical experience and years of service in teaching and learning inform my thinking and what I would bring to this position.

COMMENCEMENT POLICY COMMITTEE – 6 representatives, one from each instructional college (2013-2015)

UNIVERSITY UNION ADVISORY BOARD – 1 representative, 1 vacancy (2013-2014)

Procedural Guidelines for the Academic Senate Budget and Long Range Planning Committee

Responsibilities

The Constitution of the Faculty states, "joint decision making and consultation between the administration and the General Faculty have been recognized by the legislature of the State of California as the long accepted manner of governing institutions of higher learning and are essential to the educational missions of such institutions. [T]he Academic Senate is empowered to exercise all legislative and advisory powers on behalf of the General Faculty. Advisory powers shall include, but not be limited to consultation on budget policy, administrative appointments, determination of campus administrative policy, University organization, and facilities use and planning."

The Budget and Long Range Planning Committee (hereafter BLRP) shall review and make recommendations concerning policy for the allocation of budgeted resources and long range planning decisions. BLRP shall have representation on bodies formed to review the mechanisms by which campuswide resource allocations are made. BLRP shall work cooperatively and in consultation with administrative departments, units, representatives, and staff members. Budget and long range planning tasks assigned to specific, standing committees of the Academic Senate fall within the purview of BLRP. BLRP shall continuously develop and maintain definitions of budget transparency and faculty consultation on budget and long range planning issues.

Business items may be given to BLRP by the Academic Senate, Executive Committee, and/or the Senate Chair. BLRP may send to the Executive Committee a recommendation in the form of a draft resolution in order that it be placed on the Academic Senate's agenda. BLRP's recommendations shall not be considered policy statements until formally approved by the Senate and/or Executive Committee.

Membership

Shall include one voting General Faculty representatives from each college and PCS. Ex officio members shall be an ASI representative, Vice Provost/Vice President for Academic Affairs or designee, and Vice President for Administration & Finance or designee.

Organization

BLRP shall organize the committee members into two working groups: Long-Range Planning and Budget. The Long-Range Planning working group will be responsible for completing the long-range planning charges given to BLRP by the Executive Committee and representing BLRP outside the committee as needed. The Budget working group will be responsible for completing the budget charges given to BLRP by the Executive Committee and representing BLRP outside the committee as needed. In general, the two units will meet and work as a team with the option to act as subcommittees on an as needed basis.

Responsibilities of the Chair

The BLRP Chair (hereafter the Chair) is responsible for scheduling meetings, setting an agenda, and conducting all meetings. After each meeting, the Chair will provide meeting minutes, including votes taken by BLRP on business items. At the end of each quarter, the Chair will submit a report to the Senate Office including a summary of the BLRP's work and accomplishments. At the end of each academic year, the Chair will conduct an annual review of BLRP's work and accomplishments, and provide an evaluation on how they fit within BLRP's responsibilities.

Meetings

BLRP shall meet at least three times per quarter. Meetings shall be scheduled during normal work hours, during the third, sixth, and ninth Friday of each quarter. Notification of meetings shall be sent at least five working days before the meeting date. A quorum is required to conduct business. A simple majority of the voting members shall constitute a quorum for a meeting. A vote by the majority of the voting members attending a meeting constitutes the recommendation of BLRP. Voting shall take place by a show of hands unless one attending member requests a secret ballot. Electronic meetings may be conducted as described in AS-721-10.

Reporting

All BLRP deliverables must be voted on and approved by the BLRP voting members before dissemination. Minority opinions may be submitted to the Academic Senate for consideration. All meeting minutes, reports, and minority opinions will be made available to the General Faculty by way of the Academic Senate.

Dated: Spring 2013

Adopted:

**ACADEMIC SENATE
of
CALIFORNIA POLYTECHNIC STATE UNIVERSITY
San Luis Obispo, CA**

AS-__-13

**RESOLUTION ON PROGRAM AND AREA NAME CHANGE FOR THE
INDUSTRIAL TECHNOLOGY PROGRAM AND AREA OF THE
ORFALEA COLLEGE OF BUSINESS**

1 WHEREAS, The Industrial Technology area of the Orfalea College of Business has requested
2 the name of its undergraduate degree program and area be changed to
3 INDUSTRIAL & PACKAGING TECHNOLOGY to better reflect the program
4 the area is currently offering; and
5

6 WHEREAS, The request for this name change has been approved by the Orfalea College of
7 Business Undergraduate Program Committee, the Orfalea College of Business
8 Academic Senate Caucus, and the Dean for the Orfalea College of Business;
9 therefore be it
10

11 RESOLVED: That the name of the Orfalea College of Business Industrial Technology program
12 and area be changed to INDUSTRIAL & PACKAGING TECHNOLOGY.

Proposed by: The Industrial Technology Area of the Orfalea
College of Business

Date: April 5 2013

Adopted:

**ACADEMIC SENATE
of
CALIFORNIA POLYTECHNIC STATE UNIVERSITY
San Luis Obispo, CA**

AS-__-13

**RESOLUTION ON
PROPOSAL FOR THE ESTABLISHMENT OF THE KENNETH N. EDWARDS
WESTERN COATINGS TECHNOLOGY CENTER**

- 1 RESOLVED: That the Academic Senate of Cal Poly endorse the attached proposal for the
2 establishment of the Kenneth N. Edwards Western Coatings Technology Center.

Proposed by: Dr. Raymond Fernando, Arthur C. Edwards
Endowed Chair, Director: Polymers and
Coatings Program, Chemistry and
Biochemistry Department, Cal Poly
Date: September 18, 2013



**Proposal to Establish a Kenneth N. Edwards Western Coatings
Technology Center
California Polytechnic State University**

Submitted by: Raymond H. Fernando, Ph.D

September 18, 2013

Introduction

The Department of Chemistry and Biochemistry at California Polytechnic State University (Cal Poly) has been planning to propose the establishment of a Kenneth N. Edwards Western Coatings Technology Center (WCTC) since 2002. Cal Poly has strong faculty expertise in polymers and coatings, long-standing partnerships with industry, as well as the equipment, space, and funding to support the proposed center.

The Department of Chemistry and Biochemistry has been offering a concentration in polymers and coatings for over 20 years. In addition, since 2002, the department has offered a unique Masters program in polymers and coatings, the only such program in California. Students in the MS program work closely with faculty and industry partners to develop the specialized skills they need for careers in the polymers and coatings technology industry.

Cal Poly's coatings and polymers faculty members are highly respected both nationally and internationally. The steady growth of Cal Poly's educational programs in polymers and coatings as well as the high caliber of applied research in polymers and coatings means that Cal Poly's faculty members are widely recognized by industry and educational partners as leaders. Cal Poly faculty and students have been engaging in applied research and outreach activities to industry since 2002 *as if* they were operating from a center. At this juncture, the formal establishment of the WCTC will allow faculty experts in polymers and coatings to expand their capacity in providing the educational and applied research opportunities it offers to students and industry partners. Through the WCTC, faculty members anticipate growth in several areas, such as:

- Additional capacity to do contract research;
- Additional capacity to provide coatings testing services;
- Ability to accommodate post-doctoral requests;
- Increasing "short courses" offerings (2 week industry certificate courses) in summer and throughout the academic year; and
- Increasing opportunities for students to do applied research and gain employment in polymers and coatings

Chemistry and biochemistry faculty members with expertise in coatings and polymers have a long track record of working collaboratively with faculty in other departments and colleges. For instance, faculty members from the Department of Chemistry and Biochemistry have done polymer film and surface coatings testing work in collaboration with the Center for Coastal Marine Sciences. They have an ongoing collaboration with the Global Waste Research Institute in the area of nanomaterial waste. Additionally, they have worked with faculty members in Dairy Products Technology Center, Graphic Communication Department, Materials Engineering Department, and the Industrial Technology Department. Through the

WCTC, chemistry and biochemistry faculty members intend to increase these kinds of productive collaborative efforts.

Mission

The WCTC at Cal Poly will provide a forum for faculty, students, and industry partners to elevate and bolster educational opportunities and applied research in polymers and coatings technology. The WCTC will accomplish this mission by:

- (1) Engaging faculty in teaching and research in polymers and coatings technology;
- (2) Engaging students in studying and applying skills associated with polymers and coatings technology; and
- (3) Engaging and developing relationships with members of industry involved in polymers and coatings technology.

The WCTC at Cal Poly will be self-supporting. Academic freedom will be practiced in all Center activities.

Funding and Facilities

Funding to support the WCTC is in place and no additional facilities are required:

- Together with industry, department members have raised 3 million dollars to support the WCTC. These funds have been used to build laboratories for polymer synthesis, coatings formulation, and instrumental analysis and a conference/student presentation room, all in the Warren J. Baker Center for Science and Mathematics. Together these facilities will serve as the operational base for the WCTC;
- Dr. Ray Fernando was hired in 2002 as Cal Poly's first endowed chair, the Arthur C. Edwards Chair in Coatings Technology and Ecology. Over \$1 million was raised to support the Arthur C. Edwards Chair, currently the only endowed chair in a California State University (CSU) chemistry department; and
- Over \$200,000 in funds has been raised for equipment. For instance, the KASM Equipment Endowment has been funded to ensure that academic and research activities are conducted on high quality equipment.

Polymers and Coatings Applied Research

Cal Poly faculty in the Department of Chemistry and Biochemistry receive frequent requests from industry partners and from other Cal Poly faculty members to provide testing services of coatings on a wide range of surfaces. Testing of coatings

is required for virtually all surfaces with which we come into contact. To name just a few examples, coatings testing is necessary for cars, bridges, appliances, bicycles, surfaces on which we walk, medical tubes used to collect blood, and guide wires used in surgical procedures. Cal Poly faculty members are active in coatings research and testing in many of these areas. Additionally, faculty members have done research in the engineering of polymers and biological polymer systems.

Faculty members have worked closely with industry for over a decade to raise funds to support applied research. Some projects are:

- Development of novel urethane elastomers for medical applications
- Accelerated weathering of marble and resin compatibility through conservation of Nice Muses Roman Sarcophagus
- Development of an advanced, lightweight, mesh and polymer-based splinting system for immobilization of fractures in tactical environments
- Zero VOC preparation of polystyrene-co-methyl methacrylate using Ionic solvents
- Effects of functional nanoparticles on coating performance
- Interactions of surfactants and polymeric surfactants on coating rheology
- Colorant effects on architectural coating rheology
- Polyelectrolyte and protein adsorption studies monitored via ATR/FTIR, QCM, and AFM
- Atomic force microscopy of thin films
- Membrane and surfactant biophysics
- Determination of exempt solvents by solid-phase microextraction (ASTM D6438)
- Validation of EPA Method 311 on HAP – Round Robin Testing
- ASTM VOC test method development
- Thermally responsive materials for development of insensitive munitions and self-healing coatings
- Self-Regulating, Self-Pressurizing Tubules for Integrated Circulatory Systems
- Nano-structuring of polymers
- Advanced corrosion detection methods on aluminum
- Paper based microfluidics
- Oxime ether surfactants
- Organic-inorganic hybrid nanocomposites
- Semi-conducting polymers

Learn by Doing

The establishment of the WCTC will increase applied research and educational opportunities for students. Student involvement has always been integral to applied

research in polymers and coatings at Cal Poly. The Department of Chemistry and Biochemistry has a long track record of actively seeking industry support to provide students with hands on experiences. For instance, concerted effort was devoted to funding the Bill Moore Research Fellowship Endowment, which is currently at approximately \$400,000, in order to support student research fellowships.

Students are hired regularly to do coatings testing work, which provides them not only with employment, but also with excellent field experience. Additionally, students are hired regularly to assist with contract research.

Polymers and coatings students have always been given opportunities to interact with industry partners, including presenting to the Cal Poly Polymers and Coatings Industrial Advisory Council (see section on "Governance").

Through the WCTC, faculty members expect to offer short industry certificate courses as well as host conferences on polymers and coatings. Students may be hired to assist in the preparation and delivery of short industry certificate courses and they may participate in conferences.

The WCTC will be unique not only to the CSU, but it will also have an international presence. For instance, the establishment of the WCTC may coincide with the establishment of a new partnership with the China National Coatings Industry Association (CNCIA). The CNCIA, through American Coatings Association (ACA) has requested that Cal Poly offer a Graduate Certificate Program in Polymers and Coatings Science to industry professionals in China. Cal Poly is not currently poised to offer the Certificate Program in China. However, there are plans underway to offer lecture courses to students in China as part of a certificate program in polymers and coatings. Students from China are expected to visit Cal Poly during summer for laboratory courses that make up the rest of the certificate program. The expectation is that Cal Poly students and faculty would interact with graduate certificate candidates from China during laboratory courses offered through the WCTC. Students in the China program who wish to complete the Cal Poly MS could formally apply to do so.

Governance

Director

The WCTC Director will be the occupant of the Arthur C. Edwards Chair in Coatings Technology and Ecology, who is currently Dr. Ray Fernando.

The WCTC Director will be responsible for management and oversight of all center activities. The Director will report to CSM Dean and indirectly to the Vice President for Research and Economic Development.

The WCTC Director will seek direction and support from a standing Polymers and Coatings Industrial Advisory Council. Responsibilities of the WCTC Director may include:

- Oversee effective utilization of the WCTC facilities for the benefit of Cal Poly students and faculty, and professionals in polymers and coatings field;
- Develop and coordinate initiatives and activities of the WCTC with industry partners;
- Serve as the primary point of contact for the Polymers and Coatings Industrial Advisory Board (see below);
- Continue and grow partnerships with industry, national and international organizations, and other institutions;
- In collaboration with faculty members, develop goals and objectives for the assessment of WCTC activities;
- Actively raise funds to support WCTC activities;
- Oversee the development and offering of industry certificate courses;
- Uphold the highest principles of academic freedom;
- Collaborate with faculty and consult with industry partners to develop strategic directions for curriculum development in the polymers and coatings science;
- Collaborate with faculty and industry partners to increase learn by doing opportunities for students, including internships;
- Collaborate with faculty and industry partners in pursuing sponsored research; and
- Represent the WCTC in professional industry and educational environments.

Faculty Experts in Polymers and Coatings

Cal Poly has several faculty members in the Chemistry and Biochemistry Department with expertise in polymers and coatings, including:

- Dr. Phil Costanzo, Organic Chemistry
- Dr. Ray Fernando, Polymers and Coatings Science
- Dr. Derek Gragson, Physical Chemistry
- Dr. John Hagen, Biophysical Chemistry
- Dr. Chad Immoos, Chemistry
- Dr. Dane Jones, Physical Chemistry
- Dr. Kevin Kingsbury, Chemistry
- Dr. Alan Kiste, Chemistry and Education

- Dr. Andres Martinez, Chemistry
- Dr. Hasan Palandoken, Organic Chemistry
- Dr. Shanju Zhang, Polymer Chemistry and Physics

Several other faculty members throughout the campus have collaborated with polymers and coatings faculty members in the Chemistry and Biochemistry Department:

- Dr. David Braun, Physics Department
- Dr. Trevor Harding, Materials Engineering Department
- Dr. Raphael Jimenez, Dairy Products Technology Center
- Dr. Xiaoying Rong, Graphic Communication Department
- Dr. Jay Singh, Industrial Technology Department
- Dr. Phil Tong, Dairy Products Technology Center
- Dr. Keith Vorst, Industrial Technology Department
- Dr. Dean Wendt, Center for Coastal Marine Sciences

Polymers and Coatings Industrial Advisory Board

The Department of Chemistry and Biochemistry has enjoyed a long and mutually beneficial relationship with a well established Polymers and Coatings Industrial Advisory Board. Together, faculty members from the department work with industry partners to develop strategies for creating and improving curricular offerings, identifying industry needs, and ensuring Cal Poly graduates are well positioned to have rewarding careers in polymers and coatings areas.

Due to the outstanding history of support the existing Polymers and Coatings Industrial Advisory Council has shown for polymers and coatings education and applied research at Cal Poly, the council will function as the industry advisory council for the WCTC as well as for the program. The council will be asked to advise the WCTC director and involved faculty members about industry needs and interests that might be met through WCTC activities.

The following is the current membership of the Polymers and Coatings Industrial Advisory Council:

- Ceriac Alexander, Senior Vice-President, Behr Process Corporation
- Jim Calkin, Vice-President, Marketing, Horn Company
- Joseph Cristiano, Director & Chairman of the Board, The MCM Group
- Steve DeVoe, President, Kelly-Moore Paint Company
- Robert Wendoll, Director of Environmental Affairs, Dunn-Edwards Corporation

- Myron Shaffer, Director, Product and Technical Service NAFTA, Bayer Material Science LLC
- Melinda K. Forbes, Sr. Accounts Manager, J.F. Shelton Company
- Thomas R. Hanna, Senior Technical Service Consultant, DuPont Titanium Technologies
- Patricia Jones, Key Accounts Manager West, DSM Coatings Resins Company
- Eunice Leung, Business Development Specialist, BYK USA, Inc.
- Jeff Norris, Product Manager, Lubrizol Corporation
- Joan Pinder, Alumni Association Board Member, Cal Poly
- Joseph Reilly, President, JCR Enterprises
- Robert Sypowicz, Technical Representative, Deft, Inc.
- Joseph Tashjian, Vice-President & General Manager, Operations, Ellis Paint Company
- Scott Van Remortel, Technical Sales Manager, Unimin Specialty Minerals
- Gary Velikanje, President, Wood Kote Products, Inc.

Assessment

As required by the California State University system, the WCTC will undergo regular and rigorous program review. The assessment of the WCTC is tied to the mission of the center. Thus, the focus of assessment will be to learn what the center accomplished and how that ties with what it set out to do. Quality, not just quantity of activities, will be reported in program review, along with performance metrics developed by faculty involved in the center. Performance metrics will be developed:

- To measure student involvement (output, e.g. how many students involved, how many student projects, and outcomes, i.e., learning objectives for center activities)
- To assess faculty activities (e.g., number of grants, workshops, conferences, contracts)