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## Information

### *Professional Services Committee*

#### Update on the Work of the Teaching Mathematics Advisory Panel

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**Executive Summary:** At its December 2008 meeting, the Commission directed that an advisory panel be convened to study the mathematics specialist authorization. The charge to the advisory panel was expanded at the January 2009 meeting. In addition to the information in this agenda item, an oral report on the work to date of the Teaching Mathematics Advisory Panel will be presented.

**Recommended Action:** For information only

**Presenters:** Rebecca Parker, Consultant, and Teri Clark, Administrator, Professional Services Division

#### Strategic Plan Goal: 1

#### Promote educational excellence through the preparation and certification of professional educators

- ◆ Sustain high quality standards for the preparation and performance of professional educators and for the accreditation of credential programs

April 2009



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# Update on the Work of the Teaching Mathematics Advisory Panel

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## Introduction

At the December 2008 meeting, the Commission directed staff to convene an advisory panel to consider the need for, and, if necessary, to propose revised authorizations and program standards for the Mathematics Specialist Credential (<http://www.ctc.ca.gov/commission/agendas/2008-12/2008-12-3G.pdf>). During the January 2009 meeting, the Commission expanded the charge to the advisory panel to include a review of all authorizations for the teaching of mathematics.

## Background

Currently, there are a variety of authorizations that permit a certificated individual to teach mathematics. An agenda item describing all authorizations that allow an individual to teach mathematics was presented to the Commission in January 2009 (<http://www.ctc.ca.gov/commission/agendas/2009-01/2009-01-3E.pdf>). The subject matter program standards and examination content specifications for teaching mathematics were last updated between 2001 and 2003 as part of the SB 2042 revision process. The standard focusing on pedagogy, including the teaching of mathematics for multiple and single subject credentials, was last revised in 2001. Although the Commission adopted modifications to the SB 2042 standards in January 2009, none of the modifications addressed the pedagogy of teaching mathematics.

The authorizations that allow an individual to teach mathematics include a Mathematics Specialist credential. However, this authorization does not permit the holder to perform any service above and beyond that of the authorization for a single subject credential in mathematics. The standards for the mathematics specialist preparation program were last reviewed in 1992.

In order to look more closely at the issues raised by the agenda item of January 2009, the Commission directed staff to form a Teaching Mathematics Advisory Panel which would include representatives from key stakeholder groups. Staff developed an application that was publicized widely through the Commission's website, mathematics professional associations, the California Subject Matter Projects, and the Professional Services Division weekly e-news. The application process closed on February 20, 2009.

The twenty member panel (see Appendix A) was appointed by Executive Director Dale Janssen following a review of a large number of applications for the panel. The members were selected based on their expertise in mathematics and mathematics instruction. The panel membership represents diversity with respect to organizational affiliation, geographic region and credentials held. In addition, a consultant from the California Department of Education (CDE) serves as a liaison to the panel.

### **Charge to the Advisory Panel**

The following information has been prepared for the Teaching Mathematics Advisory Panel with regard to its responsibility:

The panel is charged to review the need for and, if necessary, propose authorizations and program standards for a *Mathematics Specialist Credential*. In discharging this task, the Panel must consider:

1. *Mathematics Specialist Credential Program Standards*
2. *The 2005 K-12 Mathematics Framework (2005)*
3. Commission adopted *Multiple and Single Subject Teacher Preparation Program Standards (2008)*
4. Other resources as appropriate such as current credential requirements and standards used by other states or professional organizations for similar credentials
5. Current research about effective instructional strategies in the teaching of mathematics

Also, as a result of Commission direction at the January 2009 meeting, the work of the panel will include a review of all of the authorizations to teach mathematics, including, but not limited to, the Mathematics Specialist Credential.

### **First Panel Meeting March 2009**

The first meeting of the Teaching Mathematics Advisory Panel was held on March 30-31, 2009. Because of the Commission agenda deadline, it was not possible to provide a written update on the panel's discussions in time for inclusion in this item. Therefore, staff will provide an oral update on the March 2009 panel meeting at the April 2009 Commission meeting.

### **Next Steps**

It is anticipated that the work of the Teaching Mathematics Advisory Panel will occur over the next eight to ten months. The second meeting will take place on May 21-22, 2009 at the Commission offices. Staff will bring another update on the work of the panel at the August 2009 Commission meeting.

## Appendix A

### Teaching Mathematics Advisory Panel (2009)

| Name  | Employer  | Representing  |
|---|---|---|
| CK Green  | Newport-Mesa Unified School District                  | California Federation of Teachers (CFT)                                     |
| Crystal Gips                                      | California State University, Office of the Chancellor | California State University, Office of the Chancellor                       |
| Jody Priselac                                     | University of California, Los Angeles                 | University of California, Office of the President                           |
| Katharine Clemmer                                 | Loyola Marymount University                           | The Association of Independent California Colleges and Universities (AICCU) |
| Pam Tyson   | Contra Costa County Office of Education               | California County Superintendents Educational Services Association (CCSESA) |
| Phil Quon   | Cupertino Unified School District                     | Association of California School Administrators (ACSA)                      |
| Jan Bridge  | Chino Valley Unified School District                  | California Teachers Association (CTA)                                       |
|   | None appointed at this time                           | California School Boards Association  |
| Brenda Hensley                                    | Vacaville Unified School District                     |   |
| Carole Vargas                                     | Folsom Cordova Unified School District                |   |
| Katherine Morris                                  | Sonoma State University                               |   |
| Kyndall Brown                                     | University of California, Los Angeles                 |   |
| Lisa Hoegerman                                    | Apple Valley Unified School District                  |   |
| Dennis Parker                                     | University of the Pacific                             |   |
| Nadine Bezuk                                      | San Diego State University                            |   |
| Sunny Chin-Look                                   | Alhambra Unified School District                      |   |
| Vriana Kempster                                   | San Francisco Unified School District                 |   |
| Zeev Wurman                                       | Independent Consultant                                |   |
| Megan Holstrom                                    | Hillbrook School, Los Gatos                           |   |
| David Simmons                                     | Ventura County Office of Education                    |   |
| Michael Fickel                                    | California State University, San Marcos               |   |
| Jim Greco   | Liaison with the California Department of Education   |   |
| <b>Staff Working with the Math Advisory Panel</b> |   |   |
| Terry Janicki                                     | Commission on Teacher Credentialing                   |   |
| Rebecca Parker                                    | Commission on Teacher Credentialing                   |   |
| Teri Clark  | Commission on Teacher Credentialing                   |   |

