PART I: SPECIAL ISSUE

The New York Collaborative for Excellence in Teacher Preparation (NYCETP)
Focusing on the Power of Collaboration

PART II: REGULAR JOURNAL FEATURES

Virginia Mathematics and Science Coalition
The Journal of Mathematics and Science:
COLLABORATIVE EXPLORATIONS

SPECIAL ISSUE
The New York Collaborative for Excellence in Teacher Preparation

Coordinating Editor for this Special Issue
Barbara C. Freeouf
NYCETP City-Wide Coordinator
Coordinating Editor’s Note

The New York Collaborative for Excellence in Teacher Preparation (NYCETP) is a 5-year project funded by the National Science Foundation (DUE #9453606). It is a partnership of five colleges of the City University of New York (Brooklyn, City, Hunter, Lehman, and Staten Island) and New York University. The central purpose of our Collaborative is to improve the preparation of elementary and secondary teachers of science and mathematics. To this end, we have been engaged in six interrelated clusters of activities, including:

• developing new approaches to teaching and assessing science and mathematics in college courses;
• providing new training opportunities including the design of new courses for prospective teachers at all levels;
• developing new training materials, with special emphasis on the design of curriculum units which reflect collaboration among faculty of varied disciplines and K-12 teachers, and reflect our urban context;
• providing student support and career development, including follow-up of first year teachers and internships in settings such as college tutoring, K-12 classrooms, and local science museums;
• recruiting promising students into teaching;
• developing exemplary field sites for student teachers.

NYCETP provides a model for how teacher preparation programs can support school change. Lasting effects of our Collaborative have resulted from the formation of a cohort of university faculty from many disciplines with a commitment to teacher preparation, and the creation of new links between college faculty and K-12 teachers, as well as links between science-rich institutions and educators at all levels. Of particular importance to the success of NYCETP has been the collaboration and cooperation between education and liberal arts faculty, and among the various science and mathematics faculties.

The NYCETP Vision and Philosophy of Mathematics and Science Teacher Preparation has guided the development and implementation of all Collaborative activities. In this publication more than a dozen project participants provide insights into selected activities. This selection of our collective work demonstrates the ways in which NYCETP participants are using strategies advocated by reformers, including inquiry-based learning, cooperative learning, alternative assessments, to achieve the project’s goal to change the quality of science and mathematics teaching and learning in our schools. The chart below offers a summary of the articles in this special issue:
By focusing on the “Power of Collaborations,” our intention in this issue was to seed more professional interactions among colleagues and to inspire others to also take up our cause to continually seek excellence in teaching mathematics and science at all levels. At the same time, however, we recognize that collaborative work is never easy. As with all worth-while endeavors, collaborations are fraught with challenges. In the end, their power lies in the processes shared, the products produced, and the connections made on many levels—personal, professional, curricular, and institutional.

NYCETP is pleased to present a sampling of such processes, products, and connections. Our hope is that the work described here will invite professional discourse beyond our own institutions, as we collectively continue to find better and better ways to prepare excellent teachers and become excellent teachers ourselves. We are grateful to the editorial board of the Journal for their willingness to devote a special issue to the work of the NYCETP project. Professors Raychowdhury and Haver, Karen Murphy and other excellent staffers made the entire process particularly smooth and simple.

Finally, other publications that chronicle the development of NYCETP courses and related activities will be available for dissemination during the 2000-2001. If the reader is interested in receiving detailed information about any of the activities mentioned here or elsewhere, we invite you to contact the Collaborative office, the campus coordinators, or the authors in this publication.

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