

Board Meeting
January 24, 2013

APPOINT ASSOCIATES TO THE
CENTER FOR ADVANCED STUDY, URBANA

Action: Appoint Associates to the Center for Advanced Study for the Academic Year 2013-14

Funding: State Appropriated Funds

Each year the Center for Advanced Study awards appointments as Associates in the Center, providing one semester of release time for creative work. Associates are selected in an annual competition from the faculty of all departments and colleges to carry out self-initiated programs of scholarly research or professional activity.

The Vice President, University of Illinois and Chancellor, University of Illinois at Urbana-Champaign recommends the following list of Associates selected for the 2013-14 academic year, and offers a brief description of their projects:

William Bernhard, Professor, Political Science, *Reputation and Politics*

Although reputation affects policy-making and governance, social scientists do not have much insight into how reputations are formed and evolve. Through a series of laboratory experiments, this project will first provide a better formulation of how reputations develop and then will connect the experimental results with real-world political situations by examining the role of reputation in two areas: deal-making in Congress and the European sovereign debt crisis.

Tamara Chaplin, Associate Professor, History, *Sappho Comes Out: Lesbian Lives in Postwar France*

Since the 1970s, lesbians in France have used identity politics to fight for recognition from a republican nation that refuses to acknowledge the rights of groups. The proposed book project, *Sappho Comes Out: Lesbian Lives in Postwar France*, explains how the mass media became a critical tool in this fight, and emerged as a—if not the—primary conduit between oppressed groups and the modern state.

Brian DeMarco, Associate Professor, Physics, *Ultracold Quantum Glassiness*

This new research program will focus on understanding how disorder and inter-particle interactions combine to create quantum glassiness. An entirely new state of matter consisting of ultracold atoms trapped in a disordered crystal of light and interacting at long distances will be created.

James Eckstein, Professor, Physics, *Search for New Topological Materials*

The focus of this study is the synthesis of new topological materials and their incorporation into novel devices that make use of their unique properties. The project will attempt to understand how chemistry and structure lead to the desired topological properties and use this to design new topological phases with more extreme properties.

Tim Futing Liao, Professor, Sociology, *Social Structure, Family Structure, and Life Course in Tang China*

We know a great deal about the history and the arts of the Tang Dynasty (618-907 AD), a Chinese historical period commonly considered a peak of Chinese civilization, but we know little about the family structure during the period. The proposed research will use a unique dataset the author has collected to explore the relationship between family structure and the larger social structure.

Yi Lu, Professor, Chemistry, *Selective Agents for Multi-target and Multi-modal Cancer Detection, Imaging and Therapy*

The proposed project will develop a general platform for selective multi-modal imaging of biologically relevant targets in breast cancers; for characterizing the content of these markers and receptors; for monitoring their dynamic response to the various treatment protocols; and for targeted therapy.

Harry Liebersohn, Professor, History, *The Globalization of Music, 1877-1940*

This project will narrate the globalization of music from Edison's invention of the phonograph in 1877 to the outbreak of World War II. In response to new technologies and European imperialism, musical globalization belonged to a new phase in the history of cultural encounter, and represents a significant *intellectual* achievement.

Erik McDuffie, Associate Professor, African American Studies, *Garveyism in the American Heartland: The Practice of Diaspora in the Urban Midwest*

This new book project extends the geographical and analytical boundaries of African American history with its attention to the African Diaspora through a study of the Universal Negro Improvement Association (UNIA), the largest black protest movement in world history. The term "diasporic Midwest" will be used as an empirical and theoretical framework to examine the importance of the region in the transnational Garvey movement from the 1920s through the 1970s; trace the role of heavy industry and labor in shaping a diasporic protest movement; highlight the gender and sexual politics of the urban Midwestern UNIA; and chart a genealogy of the Civil Rights-Black Power Movement.

Colleen Murphy, Associate Professor, Philosophy and Women and Gender in Global Perspectives, *A Philosophical Defense of Transitional Justice*

Transitional justice refers to how societies address past wrongdoing while attempting to democratize following conflict and repression. *A Philosophical Defense of Transitional Justice* will employ the methods of analytic philosophy to explain why justice is different in transitions; articulate the basic principles of transitional justice; and evaluate the justice of criminal trials, truth commissions and reparations.

Martin Ostoj-Starzewski, Professor, Mechanical Science, *Fractals in Mechanics of Bio-, Geo-, and Technological Materials*

The general objective of this project is to develop mechanics and thermodynamics of materials with fractal structures, addressing two questions: (1) How does thermo-mechanics affect formation of fractal patterns materials? (2) What methods of solution can relate to the corresponding initial-boundary-value problems?

Eva Pomerantz, Professor, Psychology, *Early Adolescence in the United States and China*

This project will investigate how children's entry into adolescence differs in the United States and China. In this context, the question of whether there are benefits as well as costs to children's navigation of adolescence in each country will be examined.

Brent Roberts, Professor, Psychology, *Gene Expression and Conscientiousness*

The goal of the proposal is to study the gene expression patterns underlying the trait of conscientiousness. The research will help to identify the etiology of conscientiousness and the possible physiological mechanisms responsible for the effect of conscientiousness on health.

Marina Terkourafi, Associate Professor, Linguistics, *The Importance of Being Indirect: New Insights into the Study of Indirect Speech*

Indirect speech has traditionally been viewed as the more cumbersome alternative to speaking directly (defined as saying-what-we-mean and meaning-what-we-say). This project will study the functions of indirect speech in a range of less well-known cases (child language, foreign language learning, metaphor, and language use between intimates) with the aim of challenging this received view and, by doing justice to the unique possibilities for genuine ‘joint thinking’ that indirect speech affords, sparking new ways of thinking about, and studying, indirect speech as a discursive phenomenon in its own right.

Helga Varden, Associate Professor, Philosophy, *A Kantian Theory of Sexuality*

In *A Kantian Theory of Sexuality*, the author will explore how a Kantian theory of freedom allows for a comprehensive theory of sexuality: reconciling the ethical and legal-political perspectives on sexuality, while also integrating our multifaceted human nature (our social, cultural, religious, and personal being). Although existing philosophical analyses focus on significant issues that comprise our understanding of sexuality—for example, theories of justice and women, of sexed embodiment, of love, sexual identity and orientation, of marriage, of pornography, of prostitution—*A Kantian Theory of Sexuality* develops more complex partial accounts as well as unifies these into one overarching, coherent theory.

Robert Warrior, Professor, American Indian Studies, *Indigenous Intellectual Health*

This book project focuses on creating a critical framework that bridges humanities-based theoretical work in American Indian studies and public and academic discourse on health in the indigenous world. Through chapters on the history of indigenous writing, native language revitalization, and the connection between experimentation in native science and experimentalism in contemporary native art, the book seeks to integrate the work of intellectuals into broader discussions of indigenous health.

Alexandru Zaharescu, Professor, Mathematics, *The Circle Problem, the Divisor Problem, and Bessel Function Series*

Ramanujan discovered two formulas which connect the famous circle problem and Dirichlet divisor problem to certain double series of Bessel functions. Ramanujan's first formula has recently been proved, and the main goal of this research project is to construct a proof for the second, more difficult formula.

The Board action recommended in this item complies in all material respects with applicable State and federal laws, *University of Illinois Statutes, The General Rules Concerning University Organization and Procedure*, and Board of Trustees policies and directives.

The Vice President for Academic Affairs concurs.

The President of the University recommends approval.