最新

美国加拿大

名校教授信息手册

数理化 环境 材料科学分册



临军去战社

最新美国、加拿大名校 教授信息手册

数理化、环境、材料科学分册

郭 青 李建春 崔 洋 编

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前 言

随着国际互联网在我国的迅速发展,使得我们与世界各个国家的交流变得日益快捷方便起来,然而当今网络世界的信息资源浩如烟海,在网上浏览同类信息需要大量时间和费用,因此我们归纳整理美国、加拿大教授研究方向资料,方便读者通过 E-Mail 直接与教授联系。过去一封发往海外的信函,收到回信往往需要一个多月的周期,自从有了 E-Mail(电子邮箱),发信过程只需几秒钟,而且费用只为普通信函的十分之一,这对于经常与国外有联系的科技人员、外贸工作者和有志于到海外留学的青年学子来说是一个很好的工具。

本套手册选择了美国和加拿大百余所著名大学的热门院系及相关专业教授姓名、研究方向和课题情况,以及大部分教授的 E-Mail 地址(电子邮箱),这尤其适用于欲到美国、加拿大留学的人员,因为美国和加拿大的学校奖学金的给予权很大一部分都掌握在教授手中,直接与教授联系,可以很快地知道奖学金的分配,这已经成为获得全奖的一条切实可行的路线。本书同时也适用于争取与美、加教授合作的高校及科研院所的科技工作者,出国进修的访问学者等。本书资料内容详细,时效性强,对于从事外事、科研、信息情报收集人员跟踪世界最新科技动态同样具有参考价值。

本套手册按学科分为四个分册。生命科学分册包括生物化学、微生物学、生理学、农学、分子生物学、植物学、生物学等学科。数理化、环境、材料科学分册包括数学、物理、天文学、化学、环境、材料、化工等学科。信息科学分册包括计算机科学、电子工程等学科。经济管理科学分册包括MBA、管理、会计、审计等学科。读者可以根据自己的需要选择。

本书按美国、加拿大百余所著名大学的字母顺序排列,同时给出大学及相关系的 WWW 及 E-Mail 地址,有条件的读者也可以上网查询。本书附美国大学综合实力前五十的排名,读者可以根据自己的情况选择学校。

本书的作者同时也是本书的使用者,在清华大学攻读博士、硕士期间收集的美、加教授资源信息深受同学喜爱,萌生整理成册之念,以便与大家共享。参加编写的还有施桦、胡晓辉、冯刚、汤青、涂光忠、王炜、戴剑彬、董晓静、王楠等同志。感谢张志诚、陈永丽、王居硕在本书编辑过程中给予的大力支持与帮助。

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American University provides an excellent combination of resources for advanced education in the mathematical sciences. Undergraduate and graduate degrees are offered in mathematics, mathematics education and statistics. Faculty research interests include real and complex analysis, numerical analysis, geometry, number theory, history of mathematics, decision theory, statistical computing, mathematics education, applied statistics, time series analysis, genetics, and multivariate analysis. In addition to making significant research contributions, our faculty have a strong commitment to teaching and working with students.

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Introduction

The Department of Physics at the American University serves both the university and the country in pro-

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Department of Mathematics

Introduction

The department has over forty faculty encompassing a wide range of research interests. Many of them have attained national or international recognition, and those involved in the program in applied mathematics

have unusually broad experience gained from appointments at many of the most prestigious applied mathematics research centers in the United States. Our graduate enrollment is of commensurate size, with graduate classes usually having 5 to 10 students. Thus we are able to offer our students personal attention and close contact with the faculty.

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Department of Physics

Introduction

The strength of Auburn's Physics Department lies in its renowned faculty and skilled staff. All 22 full time faculty members have Ph. D. 's in physics from outstanding institutions throughout the country. Nine are full professors, nine are associate professors, and three are assistant professors. One is a distinguished Walter Professor and several have come to Auburn from industrial research and development laboratories, sharing their experience and exposing students to the full spectrum of career opportunities.

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Department of Mathematics

Introduction

The Department of Mathematics offers graduate work leading to the Master of Science in mathematics. This program is oriented toward students with broad interests in mathematics. Our program not only prepares capable students for further graduate study, but also allows flexibility in electives for students wanting to pursue careers in industry, government, or engineering research settings.

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Introduction

The Physics Department offers the Doctor of Philosophy degree and both thesis and non-thesis master's of science and master's of arts degrees. Current enrollment for advanced degrees is approximately 30 students. Areas of research in the department include atomic, molecular, nuclear, quantum-optical, solid-state, and space physics, experimental environmental studies and theoretical astrophysics and high energy physics.

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Marianna A. Busch — The effect of applied magnetic and radiofrequency fields on stationary and flowing colloidal suspensions.

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Charles M. Garner — The use of naturally occurring chiral materials in the development of new asymmetric synthetic methods, particularly methods involving organometallic chemistry.

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Stephen L. Gipson — Electroanalytical techniques to study the oxidation or reduction, and succeeding chemical reactions, of transition metal organometallic compounds.

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Jesse W. Jones - Synthesis of organic compounds of

biological significance.

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Robert Kane — The development of methods for the synthesis of oligonucleotides of defined structure and function.

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Carlos E. Manzanares — The study of highly excited vibrational states of polyatomic molecules to obtain information about molecular structure, vibrational energy levels, and intramolecular dynamics.

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Donald F. Mullica — Single- and poly-crystals and amorphous phases of metallic hydrous oxides, hydroxides, and metal complexes of cyanides and organocompounds are structurally analyzed by means of X-ray diffraction.

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David E. Pennington — Kinetics and stoichiometric studies ranging from oxidation-reduction to general acid hydrolyses to spontaneous and catalytic processes characterize this work.

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F. Gordon A. Stone — Organometallic compounds, species defined as those that contain carbon-metal bonds, has become a major domain of chemistry, resulting from the rich and diverse chemistry displayed by molecules of this type.

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Mary Lynn Trawick — Investigation of enzymes involved in the formation and degradation of e-(g-glutamyl) lysine and g-glutamylpolyamine crosslinks in proteins with emphasis on mechanism of enzyme action.

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Department of Physics

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Introduction

The Department of Physics at Boston College has a selective graduate program which offers a comprehensive course of study and research leading to the degree of Doctor of Philosophy (Ph. D.), as well as programs leading to a Master of Science (M. S.), and

Master of Science in Teaching (M. S. T.) in conjunction with the School of Education. Courses emphasize a strong foundation in the basic principles of physics, preparing the student to undertake advanced research under the supervision of a faculty advisor. Our department is closely-knit, and graduate students are encouraged not only to collaborate closely with their thesis advisor, but also to draw upon the experience of the entire faculty and other graduate students. Our students are trained primarily to carry out independent research at the Ph. D. level, and our graduates have gone on to successful careers in many areas, including academic, industrial, and governmental positions. Our department has a strong record of research, with faculty involved in both experimental and theoretical areas. Some areas of current interest are the theory of plasmas, theory of marginal Fermi liquids, optical and transport properties of low-dimensional condensed matter systems, and novel superconductors. In addition to individual research projects, faculty members have established major internal collaborative research efforts, including the search for plasma instabilities in novel solid-state systems, the theory of strongly correlated electron systems, and the properties of nanostructured semiconductor systems. There are also several collaborative efforts with colleagues from other institutions.

The Faculty & their Research

Pradip M. Bakshi — Theoretical plasma physics; mathematical physics; quantum field theory; atomic physics; condensed matter physics.

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David A. Broido — Theoretical solid state physics with emphasis on the electronic and optical properties of lower dimensional semiconductor systems.

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Baldassare Di Bartolo — Solid state spectroscopy, flash photolysis and molecular spectroscopy, photoacoustics, femtospectroscopy.

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Jan R. Engelbrecht — Strongly correlated electron systems, including pairing correlations in high-temperature superconductors, Fermi Liquid vs. non-Fermi Liquid behavior in two-dimensional systems, and the theory of local Fermi liquids and the metal-insulator transition. Computational physics.

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Krzysztof Kempa — Surface and interface phenomena in metallic and semiconductor systems (thin films, clusters, nanostructures) including single and collective electronic excitations and plasmons, electromagnetic response, and exchange and correlation effects; also being studied are carrier transport in lower dimensional semiconductor systems such as quantum wells, wires, and dots, and spontaneous and stimulated generation of plasmons in semiconductor systems.

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Rein A. Uritam — Particle phenomenology, current algebra, broken symmetries; foundations of quantum mechanics; non-Western and Medieval scientific traditions; role of history and philosophy of science in physics education; role of science in liberal education; connection between science and religion.

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Ziqiang Wang— Theory of novel electronic materials; localization, interaction, and metal-insulator transitions; quantum Hall effect; heavy fermion compounds; high temperature superconductors; quantum magnetism and electronic transport in high magnetic fields.

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Department of Chemistry

Introduction

The department offers Introduction leading to the Ph. D in Chemistry with concentrations in the fields of Biological, Inorganic, Organic, and Physical Chemistry. The Master of Science in Teaching (M. S. T.) is offered jointly with the School of Education to students interested in secondary school teaching.

The Faculty & their Research

Michael J. Clarke — Bioinorganic, inorganic and analytical chemistry.

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William Armstrong — Development of catalytically active species with emphasis on those that operate at the oxidizing and reducing extremes of the redox scale.

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Joseph Billo - The study of the thermodynamics and kinetics of transition metal complexes.

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Evan Kantrowitz — The understanding of the relationship between protein structure and function and in particular how the protein structure relates to catalysis, metal binding, and cooperativity in enzyme systems.

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Larry Mclaughin — Weak interactions (ionic, hydrogen bonding, and hydrophobic) between macromolecules, primarily involving nucleic acids, that determine recognition events and, in some cases, define three dimensional structures that result in catalysis.

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Mary Roberts - A molecular level (i) membrane / lipolytic enzyme interactions.

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Teeter - Protein structure and its relevance for protein function and disease.

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Amir Hoveyda — The modern chemist transformations which are asymmetric (enantioselective).

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Ross Kelly — The application of organic synthesis to the preparation of a broad variety of molecules.

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Dennis Sardella - NMR Spectroscopy; transmission of substituent effects in nonalternant 1-systems; metal ions in sterically-distorted coordination sites; theoretical organic chemistry.

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Lawrence Scott — Our research makes heavy use of organic synthesis as a powerful tool to solve problems in physical organic chemistry.

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Marc Snapper — Uses organic molecules to study biological systems.

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Paul Dacidovits - Interactions of gas molecules with liquid droplets in clouds and fogs play a fundamental role in many atmospheric processes such as acid rain formation, ozone depletion and the formation of cloud condensation nuclei.

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Yuh-Kang Pan — Quantum theory of chemical reactivity; calculations of lifetimes of singlet and triplet states by perturbation theory; applications of Lie group to chemical dynamics and vibrational-rotational spectra; calculations of molecular properties by SCF-Xa-SW method; Ab inito method; catalytic activity and amorphous alloys; theorical study of weakly bounded complexes.

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Udayan Mohanty — Theoretical biophysical chemistry.

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John Fourkas — Ultrafast spectroscopy of liquids; theory of nonlinear light/matter interactions; instantaneous normal mode theories of liquids dynamics of microconfined liquids; stretched liquids supercooled liquids two-photon microscopy.

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Department of Mathematics

Introduction

The Department of Mathematics at Boston University offers programs in the area of pure and applied mathematics and in the area of statistics that lead to the Bachelor of Arts degree in mathematics. In addition, there are special programs such as joint concentrations in mathematics and philosophy, mathematics and economics, mathematics and computer science, and mathematics and mathematics education.

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Thomas Hawkins-History of mathematics.

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Glenn Stevens-Number theory.

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Eugene Wayne - Dynamical systems, mathematical

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Robert Willcutt - Mathematics education.

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Department of Physics

Introduction

The Department of Physics offers programs leading to degrees of Master of Arts and Doctor of Philosophy in Physics. A PhD in Cellular Biophysics is given in conjunction with the Department of Physiology and the Biophysics Institute of the Medical School. The department also has an academic program for undergraduate leading to the simultaneous awarding of the BA and MA degrees. Details regarding this program are given in the Undergraduate Studies section.

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Department of Chemistry

Introduction

The Chemistry Department at Boston University has a tradition of dedication to teaching and research. While we are part of a research university, the commitment of our faculty to the education of students, at all levels, is our central mission. The Department consists of 24 faculty members. We admit about 20 new graduate students each year and have a total of 80 Ph. D. students in the program. In 1985 the Chemistry Department moved into new quarters in the Arthur G.B. Metcalf Science Center where we occupy six floors of modern research and teaching laboratory space. The University has contributed to acquisition of the most advanced research equipment and computational facilities. Together with the success of our faculty in attracting external grant funding, this financial investment has given us superb facilities in the support of our research and teaching missions. The typical faculty-led group consists of 3-6 graduate students, 1-2 undergraduate researchers, and 1-2 postdoctorals a size small enough to allow ready accessibility of the faculty advisor, yet large enough to create a stimulating atmosphere.

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The Faculty & their Research

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Richard Clarke-Physical chemistry.

Dan Dill-Theoretical chemistry.

Rosina Georgiadis-Physical chemistry.

Morton Hoffman-Physical-inorganic chemistry.

Thomas Keyes-Theoretical chemistry.

Jonathan Lee-Biochemistry.

Boris Levy-Physical chemistry .

Ronald Milburn-Inorganic chemistry.

Amy Mullin-Physical chemistry.

Alfred Prock-Physical chemistry.

Pericles Stavropoulos-Inorganic chemistry.

John Straub-Theoretical chemistry.

Lawrence Ziegler - Physical chemistry .

Brandeis University 布兰代斯大学

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Introduction

Academic excellence has always characterized Brandeis, the youngest private research university in the country. It combines the breadth and scope of a worldclass research institution with the intimacy and faculty contact of a small liberal arts college.

The school supports an innovative and exciting program of learning that emphasizes an interdisciplinary approach to knowledge and the solution of real-life problems. Brandeis is the only nonsectarian Jewishsponsored college or university in the country. A culturally diverse student body of 3020 undergraduates and 1199 graduate students enjoys unsurpassed access to an involved faculty of nationally and internationa lly acclaimed scholars.

Brandeis, ranked in the top tier of the nation's universities and called a "Best Value" by U. S. News & World Report's 1997 Guide to Best Colleges, is a proven avenue to advanced studies in the nation's leading graduate and professional schools. Located nine miles west of Boston, in Waltham, Massachusetts, on 235 attractive suburban acres.

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The Martin Fisher School of Physics Introduction

The Martin Fisher School of Physics at Brandeis University has an international reputation for excellence in research. Four of the faculty have been elected to the American Academy of Arts and Sciences and two of these faculty members are also National Academicians. The department is one of the highest ranked of its size in the country. Graduate students can choose from a wide variety of research programs ranging from fundamental theoretical studies in elementary particle physics to the application of positron annihilation in practical studies of the structure of solids;

from major experiments at national accelerator laboratories to studies of liquid crystals and theories of alloys and disordered systems; from biophysics to astrophysics and cosmology; from classical and quantum gravity to surface physics.

Currently there are 20 faculty members. Thirty-three graduate students are presently in the department working toward Ph. D. degrees. This large faculty to student ratio provides students with an outstanding opportunity for personal interaction with instructors in the classroom and laboratory and with advisors during their doctoral research. There are also several postdoctoral research associates collaborating with faculty and graduate students, thus providing further opportunity for interaction between graduate students and physicists active in research. Brandeis is situated in one of the world's major centers of research in physics. Every day there are several colloquia and specialized seminars at area universities, including Boston University, Harvard, MIT, Northeastern and Tufts, as well as Brandeis. Brandeis has a weekly colloquium (Martin Weiner Lecture Series) where distinguished visitors lecture on all aspects of physics. There are also weekly seminars organized by the various research groups.

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The Faculty and their Interest

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Craig A. Blocker - Collider Detector at Fermilab an experiment to study very high energy proton-antiproton collisions.

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Karl F. Canter - Beams of low energy positrons are being used to investigate the microscopic structures of surfaces.

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Stanley Deser- Quantum field and gravitational theories, and their generalizations.

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Marcus T. Grisaru - Elementary particle theory and

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