

OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

JANUARY 19, 1993
VOLUME 7, NUMBER 15

Student Astronomers Confirm "Dark Matter" in Small Group of Galaxies

A huge concentration of mysterious "dark matter" has been discovered by two College Park graduate students and their colleagues from NASA. The discovery appears to confirm previous theories of where most of the dark matter of the universe is concentrated—in and around small groups of galaxies.

The new discovery also adds considerable weight to the theory that most of the universe's mass consists of dark matter, the precise nature of which remains unknown.

"It's pretty amazing that two people just starting out in their careers as astronomers could be involved in making a discovery that could help determine what will be the fate of the universe," says David S. Davis, 33, of the NASA Goddard Space Flight Center in Greenbelt, Md.

Both Davis and John S. Mulchaey, 25, of the Space Telescope Science Institute in Baltimore, are doctoral students in astronomy. Along with Dr. Richard F. Mushotzky of the NASA Goddard Space Flight Center and Dr. David Burstein of Arizona State University, Tempe, they announced the discovery of the dark matter on January 4, 1993, at the meeting of the American Astronomical Society in Phoenix, Arizona.

Dark matter is matter of an unknown type that astronomers and cosmologists believe makes up most

of the universe's mass. Its existence was deduced from the relative amounts of light elements and isotopes produced during the "Big Bang" that most scientists believe gave birth to the universe.

Other factors supporting the existence of dark matter include the properties of high-temperature gas located in clusters of galaxies and the high speeds at which galaxies are moving in clusters.

The discovery, which was reported by *The New York Times*, *The Washington Post*, *Newsweek*, CNN and the CBS morning and evening news, was made with X-ray pictures taken by the ROSAT (Roentgen Satellite) X-ray observatory satellite. The pictures were taken of the NGC 2300 group, three galaxies located about 150 million light years from Earth in the direction of the northern constellation Cepheus. These images show that the small group of galaxies is

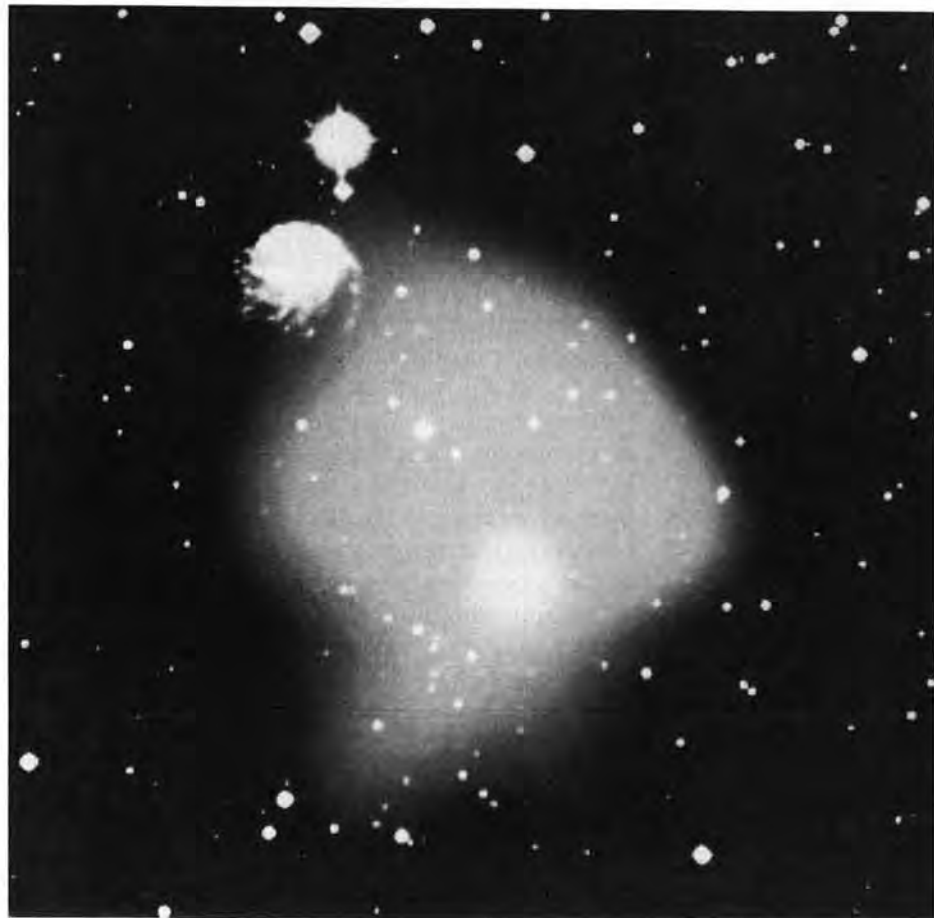


Photo courtesy of NASA

The mass of this hot gas cloud is about the same as the three galaxies inside it. Astronomers believe this means a substantial amount of "dark matter," about 20 times the mass of the cloud, envelops the system and contains the hot gas.

immersed in a huge cloud of hot gas, about 1.3 million light years in diameter. The astronomers estimate that

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Training in New Performance Management Process Begins for Non-Faculty Supervisors

Starting in February, non-faculty supervisors will be attending training sessions run by the Mercer consultants to become familiar with the new performance management process (PMP), which will be implemented in mid-April.

"PMP is an ongoing communication process between supervisors and employees which involves goal setting, feedback and coaching and performance review discussions," says Dale Anderson, director of Personnel, in a recent memo to all deans, directors and chairpersons. "New forms and procedures have also been developed and will be implemented at College Park in mid-April 1993."

According to Rythee Wilkes, assistant director of Personnel, special information sessions for key senior administrators will begin the week of February 8, followed by training sessions for all non-faculty supervisors beginning the week of February 15. Training sessions will conclude March 24.

Information sessions for non-supervisory staff will also be offered beginning in February and March, though specific dates have yet to be determined. Staff from personnel services will be on hand to answer questions about PMP and guide participants through the new forms and procedures. For more information, call 405-5651.

Senate Open Hearing on Student Conduct Set for January 26

The Student Conduct Committee of the Campus Senate will hold an open hearing on Tuesday, January 26, from 3 to 5 p.m. in the Maryland Room of Marie Mount Hall, to discuss the university's code of academic integrity. For more information, call Kathleen Smith at 405-5804.

Statement on Classroom Climate

(On May 8, 1989, the Campus Senate endorsed the following statement concerning classroom climate which had been developed by the Greer Committee on Undergraduate Women's Education. At that time, it was recommended that the statement be published periodically in *OUTLOOK*.)

The University of Maryland at College Park values the diversity of its student body and is committed to providing an equitable classroom atmosphere that encourages the participation of all students. Patterns of interaction in the classroom between the faculty member and students and among the students themselves may inadvertently communicate preconceptions about student abilities based on age, disability, ethnicity, gender, national origin, race, religion or sexual orientation. These patterns are due in part to the differences the students themselves bring to the classroom. Classroom instructors should be particularly sensitive to being equitable in the opportunities they provide students to answer questions in class, to contribute their own ideas, and to

participate fully in projects in and outside of the classroom.

Of equal importance to equity in the classroom is the need to attend to potential devaluation of students that can occur by reference to demeaning stereotypes of any group and/or overlooking the contributions of a particular group to the topic under discussion. Joking at the expense of any group creates an inhospitable environment and is inappropriate. Moreover, in providing evaluations of students, it is essential that instructors avoid distorting these evaluations with preconceived expectations about the intellectual capacities of any group.

It is the responsibility of individual faculty members to review their classroom behaviors, and those of any teaching assistants they supervise, to ensure that students are treated equitably and not discouraged or devalued based on their differences. Resources for self-evaluation and training for faculty members on classroom climate and interaction patterns are available from the Office of Human Relations.

Dark Matter Exposed By Graduate Students

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the cloud has a mass equal to 500 billion times that of the sun.

"Most galaxies are in small groups like the NGC group," Mulchaey explains. "The universe is like the pre-industrial United States, in which the most conspicuous population concentrations were in a few big cities, but in which most people actually lived in small towns and rural America. Now [through the ROSAT pictures] we have found where most of the dark matter in space hangs out—in the little towns of the universe, the small groups of galaxies, rather than in the rich clusters where we have mostly looked before."

The astronomers acknowledge that further research is needed to confirm a discovery of this apparent magnitude. If their findings hold up, however, scientists will need to reassess their understanding of the relative locations of dark matter and ordinary matter and what they mean to the expansion and ultimate status of the universe.

"The discovery of this large amount of dark matter suggests that the universe may eventually halt its expansion," Davis says.

—Gary Stephenson

Editor's Note

Due to a restructuring in the Office of Public Information and staff openings that have not yet been filled, *OUTLOOK* will be understaffed this term. You can still expect a weekly issue, but here are a few tips on how you can help:

Plan Ahead. *OUTLOOK* will be published every Monday (except March 22) through May 10. The deadline for news and calendar items is at least two weeks before publication date, Monday (see the accompanying schedule).

Issue Date	Copy Deadline
2/1	1/19 (Tues)
2/8	1/25
2/15	2/1
2/22	2/8
3/1	2/15
3/8	2/22
3/15	3/1
3/22	No Issue
3/29	3/15
4/5	3/22
4/12	3/29
4/19	4/5
4/26	4/12
5/3	4/19
5/10	4/26

Pick Up Your Pen. If you have an idea for a news story, feature or op-ed, and can write clear, economical prose (or know someone who can), we'd be more likely to run the finished product, especially if you can supply it on a computer disk.

Intrepid email users may even want to try an upload-download procedure.

But *OUTLOOK* reserves the right to edit all submissions and extends no guarantee of publication. So before you fill your blank page or screen, give us a call or send an email message to propose the news value, length and format of your idea. FYI: the average *OUTLOOK* piece is less than 500 words.

Be Patient. We'll do our best to ensure *OUTLOOK* provides informative, interesting and timely reading for College Park faculty and staff. If your concern is not ours, tell us why it should be. But remember that time and space limitations, along with fewer bodies now, will inevitably lead to some stories being bumped to another issue or not covered at all.

For questions or more information, contact: John Fritz, editor, *OUTLOOK*, 2101 Turner Bldg., 405-4629, jfritz@umdacc.umd.edu.

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least two weeks before the Monday of publication. Send it to Editor *Outlook*, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is jfritz@umdacc.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

Seven Theatre Scholarships to be Awarded

Seven theatre scholarships will be available to talented incoming undergraduates for the 1993-94 school year. Five full-tuition scholarships will be sponsored by the College of Arts and Sciences, and two \$1,000 scholarships by the Theatre Patrons Association. The awards are granted on the basis of applications, recommendations, academic reports and auditions held February 28. Requests for applications should be made to the Theatre Department's Scholarship Committee no later than February 10.

NEWS

College Park Advances Study of Chinese Art

"One of the reasons for an undergraduate student to pursue a liberal arts education is to become a larger person, broader in intellectual and aesthetic experience, and deeper in empathy towards other peoples and cultures," says art history professor Jason Kuo. And one of the best ways to learn about other peoples and cultures, Kuo believes, is through the visual arts.

He feels that learning about the richness of creative expression in the visual arts of foreign cultures helps students appreciate and respect other cultures, particularly in a world where differences in culture and ethnicity often bring conflict.

Unfortunately, one of the major civilizations in the world has been largely ignored in the area of art history. But Kuo has taken a major step toward bringing that civilization into the mainstream of art history curriculum.

This summer, 25 faculty members from colleges and universities across the country will travel to College Park to attend the Summer Institute for College and University Faculty on the Art of Imperial China.

According to Kuo, who will serve as the Institute's director, many colleges and universities teach only Western art, and the others treat non-Western art as after-thoughts or appendices. "It is no wonder that non-Western art in general and Chinese art in particular are still either misunderstood or little understood by many experts on Western art, let alone our undergraduate students," says Kuo.

An understanding of Chinese art is important because it embodies some of the most important legacies of



Chinese civilization for the modern world, says Kuo. Among these legacies are the strong importance placed on education and the educability of all peoples, the profound respect for nature, the emphasis on human morality and historical memory, the strong ideals of political unity and social harmony, and the optimistic faith in the human potential for individual and collective good.

Through the Summer Institute, 25 professors who teach art history or world civilization will study major art forms of Imperial China with recognized scholar-teachers and will be given creative and practical methods as well as necessary resources for incorporating what they learn in the institute into their curriculum.

Participants, who will be chosen through a national competition, are required to commit to the incorporation of Chinese art into their curricu-

lum through personal statements and letters of support from their deans or presidents.

"Although the immediate beneficiaries of the institute will be the 25 college teachers, the intended beneficiaries are thousands of college students of these teachers over the next few years," says Kuo.

Funded by a \$165,000 grant from the National

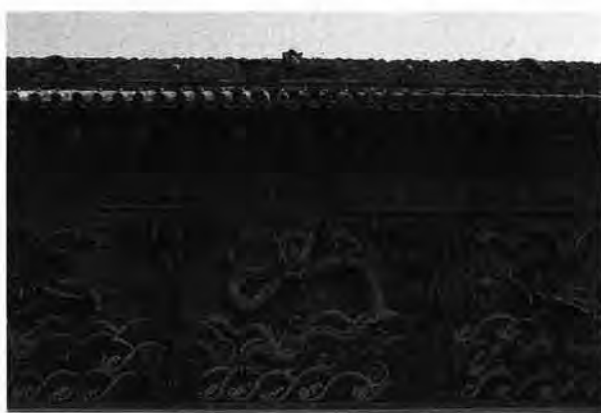
Endowment for the Humanities and sponsored by the Department of Art History and Archaeology, the institute is the first of its kind to focus on Chinese art. It also is noteworthy for the prestigious organizations it is bringing together. The institute's faculty will consist of scholar-teachers from such leading universities as Columbia, Harvard, Princeton, Stanford and Yale. All have extensive experience in teaching and research in Chinese art, literature and history, and many of them have recently published major studies or organized major exhibitions. Five of them have served as chairpersons of art history departments. Curators from the Smithsonian Institution also will serve as faculty.

"The College Park area is an ideal location for the institute," says Kuo, "because it has one of the best collections of Chinese art outside China."

Participants will have access to the Smithsonian Institution's Freer Gallery and Sackler Gallery, the Hackerman House, Walters Art Gallery Museum of Asian Art, the Baltimore Museum of Art and an extensive collection of materials at the Library of Congress.

—Beth Workman

The Hall of Great Harmony in the Forbidden City (Imperial Palace), Beijing, China, 1420. Photo by Jason Kuo.



The Nine-Dragon Wall in the Forbidden City (Imperial Palace), Beijing, China, 1420. Photo by Jason Kuo.

National Prize for Literature Awarded to College Park Professor

Jose Emilio Pacheco, professor in the Department of Spanish and Portuguese, has been awarded Mexico's National Prize for Literature, given for overall lifetime achievement in the field of literature. Pacheco accepted the award Friday, December 18, from Carlos Salinas de Gortari, president of Mexico, during a presentation at Los Pinos, Gortari's official residence.

Pacheco, world renowned poet, novelist and critic, is the author of more than 15 books of poems, including *Reposo del fuego* and *Miro la tierra*;

several novels, including *Moriras lejos* and *Las batallas en el desierto*; and several anthologies and short stories.

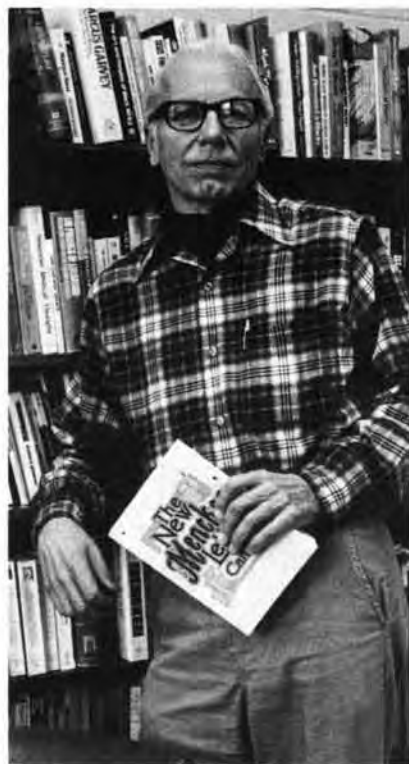
In 1980 he was awarded Mexico's National Prize for Journalism and in 1986 was appointed to El Colegio Nacional de Mexico, a select, distinguished group which represents the elite of intellectual life in Mexico. Most recently, Pacheco was recognized for 25 years of literary journalism. He now writes for *Proceso*.

The National Prize for Literature is Mexico's most prestigious award and

one of the most prestigious awards in literature throughout the world. Former winners include Nobel Prize winner Octavio Paz, Juan Rulfo, Carlos Fuentes and Fernando del Taso. In addition to National Prizes for Literature and Journalism, Prizes for Art and Science also are awarded.

The award consists of one hundred million pesos (more than \$30,000 U.S. dollars), a gold medal and a diploma.

CALENDAR



A memorial service for Carl Bode will be held Friday, February 5, at 3 p.m. in Memorial Chapel.

THE SUN

WEDNESDAY, JANUARY 6, 1993 • VOLUME 312, NUMBER 44

BALTIMORE, MARYLAND

Carl Bode, teacher and noted historian

By Mike Bowler
Staff Writer

Carl Bode, educator, biographer of H. L. Mencken and historian of Maryland, died of a stroke yesterday at his home in Chestertown. He was 81.

A prolific writer with boundless energy, Dr. Bode produced a steady stream of poems, books and essays until ill health intervened about a year ago.

He was the first biographer of Mencken and founded the Mencken Society in Baltimore, a forum for Mencken scholarship and fellowship. In 1978 he wrote "Maryland: A Bicentennial History," and he authored dozens of columns, most of them in a light vein, for *The Evening Sun* editorial pages from the early 1970s into the 1990s.

A native of Milwaukee, Carl Bode came to the University of Maryland College Park in 1947 as a young professor of American literature. His specialty — Henry Thoreau — naturally led to an interest in Mencken.

"He was the last [Mencken biographer] to meet and listen to a good many of those who actually knew Mencken," said James H. Bready, who writes a column for the *Sunday Sun* on Maryland authors, "so he became a valuable resource."

Meanwhile, Dr. Bode taught

undergraduates for 35 years at College Park, expanding from American literature to "American studies," a kind of modern sociology that allowed him to examine the often-quirky behavior of fellow citizens. He retired to "emeritus" status in 1982, and he and his second wife, the former Charlotte Smith, whom he married in 1972, moved to the Eastern Shore about a year and a half ago.

Through most of his last decade of teaching and first decade of retirement, Dr. Bode wrote occasional columns for *The Evening Sun*. They were usually framed in the first person and often poked fun at humankind's foibles. The columns covered life on the university campus. But Dr. Bode also discussed "perceptive witches I've known," basketball coach Lefty Driesell as "Christian educator," and the "porkettes" — wives of pork producers in the Midwest.

"Carl brought the editorial pages a sparkle and a wit and a class that the rest of us found it very hard to live up to," said Bradford Jacobs, the retired *Evening Sun* editor who engaged Dr. Bode as a columnist. An admiring letter writer called the columnist "a combination of Mark Twain, Ring Lardner, Art Buchwald and Russell Baker."

His eldest daughter, Barbara Bode, said Dr. Bode's "proudest moment was being named a fellow of the Royal Society of Literature." That occurred in the late 1950s, when Dr. Bode took leave from College Park to be a cultural attache for two years at the American Embassy in London.

Dr. Bode received academic degrees from the University of Chicago and Northwestern University, as well as honorary degrees from three Maryland colleges — the University of Baltimore, Salisbury State University and Western Maryland College.

He was the founder and first president of the American Studies Association and a member and former president of the Thoreau Society.

The family said services and burial will be private, but a memorial service is being planned at the University of Maryland in College Park.

Dr. Bode's first wife, the former Margaret Lutze, died in 1970.

Surviving, in addition to his wife, Charlotte, and daughter, Barbara, of Washington, are two other daughters, Janet Bode of New York City and Carolyn Bode of Santa Monica, Calif.

January 19-27

19 TUESDAY

First day of spring semester classes

University College Arts Program
Photography Exhibit: "Impressions—East and West," 8 a.m.-8 p.m. daily, University College Center of Adult Education Gallery, through March 28. Call 985-7154 for info.

West Gallery Art Exhibit: "The Ideal Copy," 8:30 a.m.-4:30 p.m. weekdays through Jan. 29, 1309 Art/Soc. Call 5-1442 for info.

Men's Basketball vs. Oklahoma, 8 p.m., Baltimore Arena. Call 4-7070 for info.*

20 WEDNESDAY

Women's Basketball vs. University of Virginia, 7:30 p.m., Cole Field House. Tickets are \$6 for adults, \$3 for children and seniors. Call 4-7070 for info.*

UM Observatory Open House: "Multiple Stars," Michael A. Hearn, 8 p.m., Observatory, Metzerott Road. Weather permitting, telescope observation will follow. Call 5-3001 for info.

21 THURSDAY

Meteorology Seminar: "Statistics and Sensitivity of a Double Gyre Ocean Model," John McCalpin, U. of Delaware, 3:30 p.m., 2114 Computer and Space Science. Call 5-5392 for info.

Committee on History and Philosophy of Science Lecture: "The Interpretation of Data," Frederick Suppe, 4:15-6 p.m., 1407 Chemistry. Call 5-5691 for info.

23 SATURDAY

Choral Reading Session, led by Paul Traver, Berlioz's *Requiem*, 2-5:30 p.m., Tawes Recital Hall. Call 5-5571 for info.

Concert Society at Maryland: Parnassus, Anthony Korf, conductor, and Susan Narucki, soprano 8 p.m., Conference Center Auditorium. Pre-concert discussion, 6:30 p.m. Tickets are \$17 regular admission, \$15.30 faculty and staff, \$14.50 seniors, and \$7 students. Call 403-4240 for tickets and info.*

24 SUNDAY

Choral Reading Session, led by Paul Traver, Orff's *Carmina Burana*, 2-5 p.m., Tawes Recital Hall. Call 5-5571 for info.

25 MONDAY

Graduate Student Government Meeting, 3-5 p.m., 1143 Stamp Student Union. Call 4-8630 for info.

Horticulture Social, for faculty, graduate students, and staff, 4 p.m., 1102 Holzapfel. Call 5-4336 for info.

Space Science Seminar: "The Steady-State and Dynamical Structure of a Cosmic-Ray-Modified Termination Shock," Gary Zank, U. of Delaware, 4:30

p.m., 1113 Computer and Space Science. Call 5-4855 for info.

26 TUESDAY

CIDCM Brown Bag Lunch Seminar: "The Relevance of the International Protection of Human Rights to Democratization and Peace," Edy Kaufman, 12:30-1:30 p.m., 2136 Mill. Call 4-7703 for info.

Committee on History and Philosophy of Science Lecture: "Monte Carlo Methods and Simulation Modeling: An Introduction," Paul Smith, 4:15-6 p.m., 1407 Chemistry. Call 5-5691 for info.

Dingman Center for Entrepreneurship Seminar: "Founders and Investors—Partners or Adversaries?" 6-9 p.m., Stouffer Harborplace Hotel, Baltimore. Fee is \$20 for UMCP faculty, staff and students. Call 5-2151 for info.*

27 WEDNESDAY

Meteorology Seminar: "A Challenge of a NASA Earth Probe Mission: How to Measure Rainfall From Satellites When You Can't," Benjamin Kedem, 3:30 p.m., 2114 Computer and Space Science. Call 5-5392 for info.

*Admission charged for this event. All others are free.

Note: when calling from off-campus phones, use the prefix 314- or 405- respectively for numbers listed as 4-XXXX or 5-XXXX.



Anthony Korf conducts Parnassus, an acclaimed chamber music ensemble, January 23 at 8 p.m. at the Conference Center Auditorium. There is a pre-concert discussion with Pulitzer Prize-winning composer Mario Dadiovsky at 6:30 p.m. Tickets are \$17 regular admission, \$15.30 faculty and staff, \$14.50 seniors, and \$7 students. Call 403-4240 for tickets and info.

