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WU Record

Published For The Washington University Community

December 1, 1977

Yale Assistant Director Is Appointed As Head Of Steinberg Gallery

Gerald D. Bolas, assistant to the director, Yale University Art Gallery, has been appointed director of the Steinberg Gallery of Art, Provost Merle Kling announced last week. The appointment is effective Dec. 1.

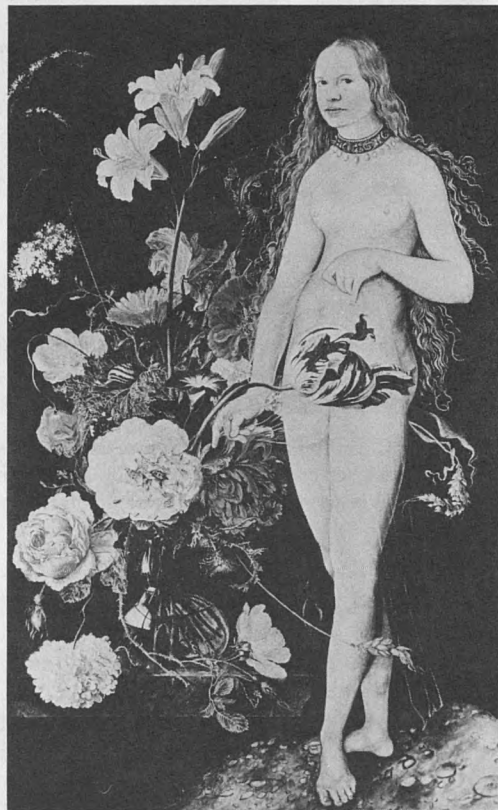
Bolas has been associated since 1976 with the Yale University Art Gallery where he was also a National Endowment for the Humanities Fellow. His responsibilities included conservation of paintings and design, exhibit installation for Greek vases and color photography and reinstallation of the gallery's African collection.

Prior to his association with Yale's Art Gallery, he served as a teaching assistant with the University of California, Santa Barbara, where he was responsible for weekly presentations of prehistoric to contemporary Western art history. He also organized and guided museum field trips.

Bolas has a bachelor's degree in English and a master's degree in art history from the University of California, Santa Barbara.

A member of the College Art Association of America and the American Association of Museums, Bolas has lectured on various subjects ranging from contemporary art to Greek vases. His publications include *A Medieval Miscellany: Romanesque and Early Gothic Metalwork* and *Drawings by Seventeenth Century Italian Masters from the Collections of Janos Scholz*.

Kling said that the search committee was faced with a tremendous responsibility in finding a director who could handle the challenging requirements of the Steinberg Art Gallery. The committee consisted of the following: Constantine E. Michaelides, dean of the School of Architecture; Leon A. Gottfried, dean of the Faculty of Arts and Sciences; Hylarie McMahon, associate professor of art; Mark S. Weil, associate professor of art and archaeology, and Emily R. Pulitzer, a prominent civic leader and patron of the arts.



Josef Levi's eclectic "Still Life with Rae as a Cranach Venus," will be one of the works on display at Steinberg Gallery, beginning Dec. 4.

Artists in New Exhibit Comment By Drawing On Past Art Traditions

An exhibit, "Art on Art," to be at Steinberg Gallery from Dec. 4 to Dec. 31 will feature the works of nine contemporary artists who use past and modern traditions in art to make statements on political, social and artistic issues relevant to society today.

New York artist Josef Levi, for instance, in his painting "Still Life," shown above, makes a witty comment on the public's often muddled knowledge of art, gained largely through reproductions which distort scale and individual artists' characteristic styles. He combines the form of a Cranach "Venus," Boticellian hair, Bruegel's naturalistic detail, and a hat from Rubens. Concepts of scale are also mixed with the flower painted as large as the woman.

The works are from the collection of the Orchard Collection of America, St. Louis. Selections from WU's permanent collection will also be on display in the lower gallery, including an important cubist sculpture "Le Cheval," by Duchamp-Villon, recently given to WU.

\$5.7 Million Awarded By NIH To WU For Computer Research

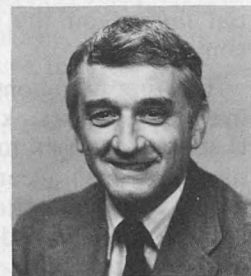
The contribution of computer technology to the broad field of medicine, including diagnosis, treatment and research, was recognized once again today with the granting of an additional \$5,773,000 to the Washington University Computer Laboratories (WUCL). The award, from the Division of Research Resources of the National Institutes of Health, was announced jointly this morning by Jerome R. Cox, Jr., of Washington University and Senator Thomas F. Eagleton, Missouri's senior senator.

The allocation is a continuation of support from the NIH, which has contributed some \$13 million since the mid-sixties to the WUCL complex and/or its components.

In a message to Cox, one of only a few scientific pioneers in this country who foresaw the benefits of mating computers to medicine, Senator Eagleton said: "I am happy to see the grant renewed at Washington University for another four years. This continuation of funding is indicative of the fine work Washington University is doing."

This new, four-year grant will support

a project entitled "A Resource for Biomedical Computing" by the WUCL, a federation of two laboratories and two new special working groups. This comprehensive program in biomedical



Jerome Cox, Jr.

computing will continue a biotechnology resource that serves the Washington University Medical Center, biomedical engineering and the national biomedical community. The components of the WUCL are: Computer Systems Laboratory (CSL) headed by Charles E. Molnar, director; Biomedical Computer Laboratory (BCL) headed by Dr. Lewis J. Thomas, Jr., M.D.; Information Systems Group with Cox as leader; and Systems Design Aid Groups (SDAG) with Donald F. Wann as leader.

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These key personnel all have academic appointments at the Medical School or on the Hilltop Campus, with Cox, professor and chairman of the department of computer science and founder of BCL, as chief investigator.

The origins of the present-day WUCL federation date back to April, 1964, when Cox founded the Biomedical Computer Laboratory (BCL) to apply computer technology to biology and medicine. Only a few months later, in June, Wesley A. Clark and a key group of computer scientists and technicians moved from the Massachusetts Institute of Technology (MIT) to St. Louis to form a sister organization now known as the Computer Systems Laboratory (CSL).

Today, 13 years later, the Washington University Computer Laboratories is collectively one of the oldest and largest such centers in this country. Undoubtedly, it was this group's ability to realize the potential need for small, manageable computers tailored for specific needs that enabled it to establish a reputation as a leader in biomedical computing.

An important factor in its success, Cox has observed, is the group's ability "to match technology to the problem. The biomedical scientist and the computer scientist must both make an intellectual investment in the other's field for effective communication to take place."

From the beginning, the labs established strong ties with most of the departments at the University's School of Medicine, developed a vigorous biomedical engineering program with the School of Engineering, and completed a variety of biomedical computing projects. Nearly all of these major projects Cox has pointed out, "have had substantial impact on the national biomedical community."

The first mini-computer introduced to medicine was known as LINC (Laboratory INstrument Computers) and have become, according to Cox, "the model for a generation of mini-computer applications in medicine." Invented by Molnar and Clark while still at MIT, it was developed and perfected in St. Louis at WUCL. Explaining the success of the LINC recently, Molnar said, "One of the novel things about the project was that it provided biological researchers with simple, small computers which they could use as tools. We decided we had to make them small, inexpensive and easy enough to understand in order that the researchers could manage them themselves without having to depend on computer professionals."

The design of the LINC was not an easy task with the result that when the Computer Systems Laboratory set up

*Peter H. Zimmerman*

Professor C. David Barry, research associate of the Computer Systems Laboratory, demonstrates the ability of a specially designed computer system to display and manipulate a three-dimensional image of a large molecule. This visualization helps scientists in their search for improved drugs with reduced side effects.

shop in St. Louis, it proceeded, according to Molnar, "to develop a set of computer building blocks. Called macromodules, these components (each about the size of a cigarette carton) could be put together, stuck into a frame and interconnected with cables. The general ground rules were that anything that could be plugged together in a way that made logical sense should work," Molnar recalled.

Of this accomplishment, Molnar said, "We are the only group whose activities have spanned the entire range from developing theory of how to modularize systems and how to handle their intercommunication all the way up to building modules and using them to make systems that did work." Inevitably, the macromodules earned the nickname in some circles of "electronic erector sets."

WUCL has made important and widely recognized contributions to the advancement of medical science since its inception. Radiation Treatment Planning and Computerized Axial Tomography (CAT Scanning) are two of the systems it has developed through basic and applied research.

Recently, scientists at Washington University have developed what is called Positron Emission Transaxial Tomography (PETT) as a computerized tool for diagnosis. The original idea was developed by Michel M. Ter-Pogossian, professor of radiation science in radiology. Ter-Pogossian, his staff in the division of radiation science, and

researchers at BCL devised a technique which involves administering to the patient (usually by intravenous injection) a selected metabolic substance labelled with a positron-emitting radionuclide. Popularly known as positron tracers, these substances emit photons traveling in straight lines in opposite directions. Their distribution in time and space can be followed by means of images provided by the latest model, PETT IV. These images, can, by mathematical computations, enable medical researchers to measure regional metabolic processes. The newly designed PETT IV was built for the cardiology division at the University's Medical School, and is destined for the cardiac care unit, where it will be used to assess damage done by heart attacks and in the study of the effects of therapy on such patients.

Research in tomography as well as in many other fields are ongoing projects at WUCL. Recently, computer drawn pictures of molecules have become important to the X-ray crystallographic community. The MMS-X (Molecular Modeling System) is a combination of a mini-computer with special electronics for control, coordinate transformation and line-drawing. It is a system devised as a means for displaying rather elaborate molecular structures on what is essentially a TV screen in order that one can form a mental image of what these structures look like in three dimensions. Garland Marshall, professor of physiology and biophysics at the University's Medical School, who participates

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\$5.7 Million

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in this research with the Computer Systems Lab (CSL), said, "Scientists, have come to realize that *shape* has a great deal to do with which drugs are effective and which aren't." This discovery stems from basic research which now permits scientists to understand and demonstrate visually the relationship of the chemical composition of a molecule and its particular three-dimensional shape.

Only recently, scientists have come to realize that the shape is all-important in understanding how a drug reacts at the receptor site. A receptor site is that part of a biological system where the drug works. In the body, what happens is that a drug, in solution, floats around until it meets a receptor. If they fit together (interlock or bind) perfectly they will behave differently together than either did separately. Scientists are beginning to understand that side effects of specific pharmaceuticals occur when a drug interacts at more than one receptor site.

Cox explained that many researchers elsewhere are using computer X-ray crystallography to determine the shape of molecules, but Washington University pioneered in demonstrating graphically the combination of X-ray crystallography and molecular modeling through the use of computer, generated moving images.

Mini-computers have been put to dozens of other uses by the WUCL, including monitoring patients undergoing intensive care, speech and hearing research, the establishment of data bases for disease management and research on neural signals and neuroanatomy. In summing up the success of the WUCL, Dr. Thomas of the Biomedical Computer Lab concluded: "Our strength lay in small computers that could be taken to the problem and to the bedside. From the beginning we were certain that this approach was much more effective than bringing jobs to a large, remote computer." (Dorothy Brockhoff)

NELSON WU, Mallinckrodt Distinguished University Professor of Art and Chinese Culture, will deliver his annual Christmas lecture Thursday, Dec. 1, at 11 a.m. in Steinberg Auditorium. The lecture is entitled "The Beginning, the Middle and the End: A Christmas Carol." With slides of Eastern and Western art and architecture, WU shows how art motifs, some born of fantasy and superstition, relate to the holiday season and to man's understanding of existence.

The **WU Record** is published weekly during the academic year by the Information Office. Editor, Janet Kelley; calendar editor, Charlotte Boman. Address communications to Box 1142.

Women's Society Serves Up a Touch of Home With Study Munchies and Birthday Cakes

3

If parents of college-age kids are afraid that their children away from home will not be remembered on their birthdays or will starve during exam time, they need not fret anymore. The WU Women's Society has taken care of the problem.

Last September, the Society began a student hospitality service to provide birthday cakes, care packages and survival kits for WU students. Parents order what they want and specify how much they want to spend, and the Women's Society does the rest. The care packages and survival kits, popular during exam time, are filled with such delights as cheese and crackers, candies, nuts and quick protein mixes from the Society's shop, the Uncommon Market in Stix International House. Most of these gifts average about \$10.



Peter H. Zimmerman

Gussie Crawford of the Women's Society presents WU freshman Bruce Komorow with a "care package" and a chocolate cake she baked for his birthday.

So far, nine unsuspecting students have received surprise birthday cakes. The Society was importing most of its cakes from some of the best bakeries in town. Now, however, the Society's plan to make its own cakes has materialized with the arrival of Gussie Crawford, a cake decorator aficionada. She is serving

CO-ED VOLLEYBALL intramural teams of students, faculty, staff and spouses are forming for tournament play on Monday and Wednesday nights, beginning January 30, in the Women's Building Gym. Entry forms, which will include team roster, captain and team name, are available in the Women's Intramural Office in the Women's Building. For further information, call Lynn Imergoot at Ext. 5204.

as chairperson the Students Hospitality Committee. Any type of cake may be ordered and for the honored student and his or her friends. The price is about \$8. So far, the requests have not been too unusual, said Kathleen Winter, president of the Society.

Once the packages or cakes are prepared, the committee sends notes to the students telling them that a special gift is waiting for them. In this way, the goods may be kept refrigerated until the students are ready to claim their surprise packages. Only once did the committee need to make a special delivery to a student who was difficult to locate.

The Women's Society, which is 13 years old, is a not-for-profit service organization of 750 local women, not necessarily alumnae. For the first time, however mothers of freshman students were invited to participate this year and 120 accepted. In addition to running the Uncommon Market, the group of women manage a furniture exchange on Millbrook Boulevard in the Academy Building. The shop sells furniture to students and to first-year faculty members and buys back the pieces later. A third shop is Bear Necessities, an eclectic gift shop in Wohl Center.

As a result of its commercial enterprises, the Society is able to provide a two-year, full-tuition scholarship for a St. Louis community college student entering WU. The total scholarship is \$8000.

The group's activities do not end there. The Society's International Committee conducts tours of St. Louis for foreign students at WU and arranges picnics for transfer students who often feel out of place when they arrive at a new school.

The Society has expanded its talents to decorating several places on campus. It has provided furniture for Stix International House and Whittemore House and plans to refurnish the committee room in Brookings Hall. It donated drapes to the Women's Lounge and carpets to Steinberg Gallery. During orientation week, plant lovers took advantage of the Society's plant sale. Next year, the group will host a ball and friendship walk to mark the University's 125 years of existence. (Mari Edlin)

THE MISSOURI ASSOCIATION FOR AUTISTIC CITIZENS (MAY-DAY) will hold an all-day workshop on autism Saturday, Dec., 3, in Umrath Lounge on campus. Workshop observers will learn about autism from professionals, parents, researchers and citizen advocates. Speakers will include Lois Blackwell, director of the Judevine Center. Registration is \$3 and begins at 8 a.m.

4 Calendar

December 2-8

FRIDAY, DECEMBER 2

4 p.m. Department of Romance Languages Colloquium, "Portrayal of the Black in the Narrative of the Rio de la Plata," John F. Garganigo, WU assoc. prof. of Spanish. Hurst Lounge, Duncker Hall.

SATURDAY, DECEMBER 3

8 a.m. Missouri Association for Autistic Citizens (MAYDAY) All-day Conference. Umrath Lounge. Registration \$3.

12 noon. WU Woman's Club Luncheon. WU student Kathy Whitaker will perform on her dulcimer. Swiss Inn, 2401 S. Brentwood. Admission \$5.80. For reservations call Alice Yawitz, 968-2785.

SUNDAY, DECEMBER 4

9:30 and 11 a.m. Newman Chapel Community Masses. Newman Chapel, 6352 Forsyth.

MONDAY, DECEMBER 5

4 p.m. Department of Psychology Colloquium, "Suicide and Parasuicide: Toward a Quantitative Model," Karl Wilson, WU asst. prof. of psychology. 102 Eads.

4 p.m. Center for Basic Cancer Research Forum, "Regulation of Ribosomal RNA Synthesis and Turnover in Normal and Viral-Transformed Cells," David Schlessinger, WU prof. of microbiology and immunology. Erlanger Auditorium, 4565 McKinley.

TUESDAY, DECEMBER 6

4 p.m. Department of Anthropology Colloquium, "The Baboons of the Awash: Genetic and Population Studies of Wild Living Baboons," Clifford J. Jolly, WU prof. of anthropology. 311 McMillen Lab.

8:30 p.m. School of Architecture Tuesday Night Lecture Series, "Wrapped Reichstag Project for Berlin," Christo, Bulgarian artist who erected the much publicized "Running Fence" in California last year. Steinberg Auditorium.

WEDNESDAY, DECEMBER 7

4 p.m. Department of Physics Colloquium, "EXAFS: A New Probe of Vocal Structure in Solids," Patrick C. Gibbons, WU asst. prof. of physics. 201 Crow.

4 p.m. Department of Music Lecture, "Western Influences on Non-Western Music in the 20th Century," Bruno Nettl, prof. of ethnomusicology, U. of Ill., Champaign. Tietjens Rehearsal Hall.

THURSDAY, DECEMBER 8

12:05 and 4:05 p.m. Newman Chapel Mass, Feast of the Immaculate Conception. Newman Chapel.

2:30 p.m. Department of Mechanical Engineering Seminar, "The Search for the Missing Mode," David A. Peters, WU assoc. prof. of mechanical engineering. 100 Cupples II.

4 p.m. Department of Chemistry Seminar, "The Molecular Structure of Paramyosin from Clams and Worms," Alfred M. Holtzer, WU prof. of chemistry. 311 McMillen Lab.

8 p.m. Department of English, Poetry and Fiction Reading Series, John Irving, novelist, reading from his works. Hurst Lounge, Duncker Hall.

PERFORMING ARTS

FRIDAY, DECEMBER 2

8 p.m. Edison Theatre Dance Series, with the Solomon Company/Dance. Edison Theatre. Admission \$4.80; \$3.75 for students not from WU, and WU faculty and staff; \$2 for WU students.



Peter H. Zimmerman

The WU Wind Ensemble will present its second formal concert of the year Sunday, Dec. 4, at 8 p.m. in Edison Theatre. Guest conductor Martin Mailman will direct the Ensemble in the performance of two of his compositions.

Tickets available at Edison Theatre Box Office (Also Sat., Dec. 3, 8 p.m. Edison.)

FILMS

FRIDAY, DECEMBER 2

7:30 and 9:30 p.m. WU Filmboard Series, "Young Frankenstein." Brown Hall Theatre. Admission \$1.50. (Also Sat., Dec. 3, same times, Brown.)

12 midnight. WU Filmboard Series, "The Producers." Brown Hall Theatre. Admission \$1. (Also Sat., Dec. 3, midnight, Brown; and Sun., Dec. 4, 8 p.m., Wohl Center.)

SATURDAY, DECEMBER 3

8 p.m. Office of Student Affairs American Cinema Series, "The Shop Around the Corner" and "Letter From an Unknown Woman." Rebstock Auditorium. Admission \$1.

MONDAY, DECEMBER 5

7 and 10 p.m. WU Filmboard Series, "Camelot." Brown Hall Theatre. Admission \$1.50. (Also Tues., Dec. 6, same times, Brown.)

7:30 p.m. School of Social Work Learning Resources Center Film Series, "My People, My Home," a film of women's history. Eloise Rathbone-McCuan, WU asst. prof. of social work, will lead a discussion following the film. Brown Hall Lounge.

TUESDAY, DECEMBER 6

12:30 p.m. Women's Tuesday Film Series, "Daddy, Don't Be Silly" and "Take This Woman." 303 Mallinckrodt. Sponsored by the Women's Programming Board. (Also 6:30 p.m., Wohl Center Lounge.)

WEDNESDAY, DECEMBER 7

7:30 and 9:45 p.m. WU Filmboard Series, "The Wonderful Crook." Brown Hall Theatre. Admission \$1.50. (Also Thurs., Dec. 8, same times, Brown.)

EXHIBITIONS

"The Understanding Eye: Stanley Morison Typographer," an exhibit of books and manuscripts documenting Morison's works. Rare Book Department, level five, Olin Library. 8:30 a.m.-5 p.m., Mon.-Fri. Through Jan. 31.

"Art on Art," an exhibit by nine contemporary artists who use the art of yesterday to make statements on political, social and artistic issues relevant to contemporary society. Steinberg Gallery. 9-5 p.m., Mon.-Fri.; 1-5 p.m., Sat. and Sun. Dec. 4-31.

MUSIC

SATURDAY, DECEMBER 3

4:30 p.m. Department of Music Clinic in comprehensive musicianship, Martin Mailman, prof. of music, N. Texas State U., Denton. Tietjens Studio.

8 p.m. Student Union Concert, Norman Blake, flat-pick guitarist, with Sandy Nassen. Graham Chapel. Advance admission \$4.50; \$3.50 for WU students with SU card. \$5.50 at the door. Tickets available at Edison Theatre Box Office.

SUNDAY, DECEMBER 4

8 p.m. WU Wind Ensemble Concert, directed by guest conductor, Martin Mailman, prof. of music, N. Texas State U., Denton, and Dan Presgrave. The program will include two of Mailman's works, "Geometrics 4" and "Shouts, Hymns and Praises"; "Suite Francaise" by Milhaud; and "Lincolnshire Posy" by Grainger. Edison Theatre.

MONDAY, DECEMBER 5

4 p.m. Department of Music Student Recital, with performances by various students. Graham Chapel.

WEDNESDAY, DECEMBER 7

8 p.m. WU Jazz Ensemble Concert, directed by Robert Edwards. Graham Chapel.

THURSDAY, DECEMBER 8

8 p.m. University Band Concert, directed by Dan Presgrave. Graham Chapel.

SPORTS

FRIDAY, DECEMBER 2

6:30 p.m. Wrestling. WU vs UMSL and Southeast Mo. State, Cape Girardeau. UMSL, 8001 Natural Bridge.

7 p.m. Men's and Women's Varsity Swimming. WU vs. St. Louis U. Wilson Pool.

SATURDAY, DECEMBER 3

2 p.m. Men's and Women's Varsity Swimming, WU vs. UMSL. Wilson Pool.

WU Joins Leading Universities On Corporate Support Committee

WU was recently invited to join 17 other universities as a member of the Committee for Corporate Support of Private Universities. Other committee members include Harvard, Yale and Princeton Universities, the University of Chicago and the Massachusetts Institute of Technology.

According to its bylaws, the committee is composed of businessmen and professionals and was established to focus attention on the financial needs of the leading independent universities in the country. The committee is not a fundraising organization, but rather works to develop sound relationships between member universities and corporations, encourage support of universities from the corporate sector and communicate joint views of academia and corporate groups to the public.

WU representatives to the committee are Maurice Chambers, chairman of the WU Board of Trustees, and board members Charles Lipton and Stanley Miller, who will also act as a representative to the committee's board of directors.

Herbert Hitzeman, Jr., vice chancellor for University Relations, will serve as WU's development member.