Coming Soon to CU Theatre & Dance!

2005 - 2006 Season

MainStage
Machinal  Nov. 17 - 19, Nov. 30 - Dec. 4
The Learned Ladies  Feb. 9 - 11, 15 - 19
DanceWorks 2006  March 16 - 19
Richard III  April 13 - 15, 19 - 23

Loft Theatre
Two Rooms  March 2 - 4, 8 - 12

Irey Theatre
Bachelor of Fine Arts Dance Concert  Nov. 18 - 20
Student Dance Concert  April 20 - 23

Theatre & Dance Box Office: 303.492.8181 On-Line Tix: www.cutheatre.org

The Kennedy Center American College Theater Festival-XXXVIII
Presented and Produced by
The John F. Kennedy Center for the Performing Arts
Supported in Part by
The U.S. Department of Education
Dr. and Mrs. Gerald McNichols
The Laura Pels International Foundation
The Kennedy Center Corporate Fund
The National Committee for the Performing Arts.

This production is entered in the Kennedy Center American College Theater Festival (KCACTF). The aims of this national theater education program are to identify and promote quality in college-level theater production. To this end, each production entered is eligible for a response by a regional KCACTF representative, and selected students and faculty are invited to participate in KCACTF programs involving scholarships, internships, grants and awards for actors, playwrights, designers, stage managers and critics at both the regional and national levels.

Productions entered on the Participating level are eligible for inclusion at the KCACTF regional festival and can also be considered for invitation to the KCACTF national festival at the John F. Kennedy Center for the Performing Arts in Washington, DC in the spring of 2006.

Last year more than 1,400 productions were entered in the KCACTF involving more than 200,000 students nationwide. By entering this production, our theater department is sharing in the KCACTF goals to recognize, reward, and celebrate the exemplary work produced in college and university theaters across the nation.
Acknowledgements

The director would like to thank
President Hank Brown,
Associate Dean Patricia Rankin/LEAP
and the Department of Mathematics for their support;
Bruce Bergner, Lynn Nichols and
James Symons for their input;
Jessica Munns, Ioanna Ahtanasapoulous
and Jeanne Ciehall for their contribution.

BREAKING THE CODE

is produced in honor of the
2005 CU Year of Art and Math project.

Please

No food, drinks or flash photography.
And turn off cell phones and pagers during the performance
We are very grateful for support from these individuals who help to make the Theatre and Dance season possible.

Visonaries

David Andrews, Sheri & Bob Best, James & Anne DeCastro, Carol & Todd Gleson, Roe Green, Noel Hefty, Joan Knaub, Karen & Ed Koeppke, Robert W. Mulkin, Jerilyn & Robert Naile, Gail Plokoik, Debra Ordway, Jamie & Alan Redmond, Dorothy & Anthony Riddle, Rebecca & James Roser, Charlotte Irey Short

Angels

Jacque Frazee Frazzini, Patricia Eckert Lindell

Sustainers

Marilyn and Phil Cohen, Kerry Ann DeVito, Lisa Fox, Kenneth J. Gamauf, Tynar R. Goudex, Hugh M. & Edna Heckman, Briana Shuwalker, Barbara Zarlengo, Marta Wachtler, John H. Ade, Susan H. Blythe, Thomas M. Kennedy

Supporters


Ticket sales account for approximately 50% of our operating budget. We need your help to continue bringing high quality performances to our stages and educational experiences to our students. If you would like to help the show go on, please call us at (303) 492-7355 or send your donation to: CU Foundation, Theatre & Dance, R.O. Box 1140, Boulder, CO 80303

THANK YOU!

Alan Mathison Turing Chronology:

1912 (23 June): Birth, Paddington, London
1926-31: Attended Sherborne School
1930: Death of friend Christopher Morcom
1931-34: Undergraduate at King’s College, Cambridge University
1932-35: Studied quantum mechanics, probability, logic
1935: Elected fellow of King’s College, Cambridge
1936: The Turing machine, computability, universal machine
1936-38: Princeton University. Ph.D. Logic, algebra, number theory
1938-39: Return to Cambridge. Introduced to German Enigma cipher machine
1939-40: The Bombe, machine for Enigma decryption
1939-42: Turing breaks U-boat Enigma Code, enabling American subs to win the battle of the Atlantic
1943-45: Chief Anglo-American crypto consultant Electronic work
1945: National Physical Laboratory, London
1946: Computer and software design leading the world
1947-48: Programming, neural nets, and artificial intelligence
1948: Deputing Director of the Computing Laboratory, Chair of Pure Mathematics, Manchester University
1949: First serious mathematical use of a computer
1950: The Turing Test for machine intelligence
1951: Elected Fellowship of Royal Society
1952: Arrested as a homosexual, loss of security clearance
1953-54: Unfinished work in biology and physics
1954 (7 June): Death (suicide) by cyanide poisoning
Alan Turing’s Influences:

Kurt Gödel (1906-1978): A logician, mathematician, and philosopher of mathematics. Gödel’s most famous works were his incompleteness theorems, the most famous of which states that any self-consistent recursive axiomatic system powerful enough to describe integer arithmetic will allow for “true” propositions about integers that can not be proven from the axioms.

David Hilbert (1862-1943): German mathematician. Hilbert solved several important problems in the theory of invariants. Hilbert’s basis theorem solved the principal problem in nineteenth century invariant theory by showing that any form of a given number of variables and of a given degree has a finite, yet complete system of independent rational integral invariants and covariants.

J. Maynard Keynes (1883-1946): An English economist, whose ideas had a major impact on modern economic and political theory as well as on Franklin D. Roosevelt’s New Deal.

Bertrand Russell (1872-1970): One of the most important logicians of the twentieth century; other subjects including education, history, political theory and religious studies. Russell was awarded the Nobel Prize for Literature in 1950. Wrote hundreds of books including Principia Mathematica, Why I Am Not a Christian, and A History of Western Philosophy.

John von Neumann (1903-1957) A Hungarian born mathematician who made important contributions in quantum physics, functional analysis, set theory, computer science, economics and many other mathematical fields.

Ludwig Wittgenstein (1889-1951) Philosopher, logician, one of the most influential philosophers of the twentieth century. His book, Tractatus Logico-Philosophicus, claimed to solve all the major problems of philosophy and was held in especially high esteem by the anti-metaphysical logical positivists.
The Enigma of Alan M. Turing

Alan Mathison Turing (1912-1954), mathematician and cryptographer, is better known now than he was during his short lifetime. His work at Bletchley Park during the Second World War helped to break the German coding machines that signaled to U-boats the locations of allied ships. However, his contribution was not widely known until 1970 when the thirty-year ban on information pertaining to the “Enigma” code-breaking was lifted. Andrew Hodges’s 1983 biography made Turing’s contribution to Allied victory in World War II known and inspired Hugh Whitemore to write Breaking the Code. Whitemore’s play, starring Derek Jacobi as Turing, was a success both in the U.K. and America and led to the 1997 film, also starring Jacobi.

Turing is now fully recognized as a mathematical genius; however, what should have been a long and successful life was cut short by Britain’s barbaric nineteenth-century laws against homosexuality, which resulted in Turing’s conviction in 1952 for “gross indecency.” Turing was given the choice of going to prison or submitting to hormone treatments designed to curb sexual desire—with the side effect of giving him breasts. At his trial, Turing failed to defend himself as he considered his homosexual activities entirely unexceptional. Turing returned to his work, sustained by his friends and colleagues, but in 1954 he took his own life, eating an apple laced with cyanide. For Whitemore, Turing broke the codes of both the German encryption system and the codes of British moral behavior. In a lecture on Artificial Intelligence, Turing stated “I propose to consider the question, ‘Can machines think?’” His brilliant but tragic life makes one wonder if the equally pressing question is “can governments think?”

--Jessica Munns, Dramaturg--

Professor of Literature, University of Denver
The University of Colorado at Boulder Department of Theatre and Dance presents:

**BREAKING THE CODE**

By
Hugh Whitemore

Directed by

**CECILIA J. PANG**

*Setting:* Various locations in Britain and Greece

*Time:* 1929-1954

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**Cast of Characters**

(For the Oct. 27, 29, Nov. 2, and 5 Performances)

**JESTIN LENTZ**
Alan Turing

**BRENDAN RAGAN**
Mick Ross

**KYLE STOCKBURGER**
Christopher Morcom

**LAURA GARCÍA**
Sara Turing

**BENJAMIN T. KOUCHERIK**
Ron Miller

**WILLIAM C. KOVASCİK**
Dillwyn Knox

**JENNIFER DUNNE**
Pat Green

**ALDO PANTOJA**
John Smith

**NATHAN FULTON**
Nikos

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(For the Oct. 28, Nov. 3, 4, and 6 Performances)

**JESTIN LENTZ**
Alan Turing

**BRENDAN RAGAN**
Mick Ross

**NATHAN FULTON**
Christopher Morcom

**JENNIFER DUNNE**
Sara Turing

**ALDO PANTOJA**
Ron Miller

**WILLIAM C. KOVASCİK**
Dillwyn Knox

**LAURA GARCÍA**
Pat Green

**BENJAMIN T. KOUCHERIK**
John Smith

**KYLE STOCKBURGER**
Nikos

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There will be a ten-minute intermission.