Proposal To Conduct A Project Under
The Community College Fund For Instructional Improvement
Project No.  

<table>
<thead>
<tr>
<th>Type of Funding</th>
<th>Emphasis of Project</th>
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<tr>
<td>( ) Major Grant</td>
<td>( ) Experiential learning or work experience</td>
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<td>(XX) Mini Grant</td>
<td>( ) Individualized instruction (using paraprofessionals, learning contracts, learning objectives</td>
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<td>( ) Loan</td>
<td>( ) Development of interpersonal skills</td>
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<tr>
<td>( ) Combination</td>
<td>( ) Independent study</td>
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<td>( ) Staff Development</td>
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<td>( ) Disadvantaged/handicapped</td>
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<td>Amount of funds requested</td>
<td>( ) Services for new clientele (working or older adults)</td>
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<td>Major Grant</td>
<td>( ) Counseling</td>
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<td>( ) Curriculum Development</td>
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<tr>
<td>Loan</td>
<td>(XX) Other Interdisciplinary-experiential learning</td>
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This project is (X) Continuing If continuing, how has the project been funded to this point?  

Is project to be conducted in consort (X) No ( ) Yes. If yes, specify with whom:  

Title of Project  R. Buckminster Fuller's World Game Film Series  
Name of College District  Santa Barbara Community College District  
Name of College where project will be conducted  Santa Barbara City College  
Superintendent  David Mertes  
Type Name  Signature  1/26/79  
Date  
Date application approved by District Board of Trustees  January 25, 1979  
Duration of project  one year  
Proposed Starting Date  May 1979  
Ending Date  April, 1980  
Project Director  Mervin Lane, Assistant Professor  
Type Name and Title  English  
Phone  605) 9650581  
Contact Person  Burt Miller, Asst. to the Sup't  
Type Name and Title  
Phone  605) 9650581  

(NOTE: Submit 3 (an original and two copies) of the entire application to the Chancellor's Office.)

For State Use Only

Received  
Date Stamp  
Date Reviewed by Council  
Date Approved by Board of Governors  
Amount of Funds Approved: Grant  Mini-Grant  Loan  Total
Abstract

Because Santa Barbara City Colleges wishes to improve the instructional program and the College curriculum by fostering experiential and interdisciplinary learning, in particular with regard to the ideas and work of one of America's important and dynamic educators, R. Buckminster Fuller, we are applying for grant assistance to obtain the last four films of a 10-film series entitled, R. Buckminster Fuller - The World Game. The first six of these films have been acquired.

Buckminster Fuller has played and is playing a comprehensive and increasingly vital educational role in the world today, and since his theories and practice are graphically recorded in this documentary series, the College deems it important enough as an educational aid to seek outside financial funding. The film series will provide educational opportunity and service to the school and the larger Santa Barbara community.

Because the entire population of the College and community will be served, and in particular, the instructional areas of the humanities, sciences and fine arts, we believe the quality of instruction and learning at the school will be improved by having these films available for classroom and auditorium use, as well as continuously on hand for individual student viewing in the College's Learning Resource Center.

Appended to this application are copies of information data on the films themselves, a biographical entry on Buckminster Fuller, evaluation assessment sheets used for the first six films, informational and response memos, and some local Santa Barbara news coverage.

Mervin Lane
Project Director
The purpose of this project is to improve the instructional program and curricula through facilitating experiential learning, supporting existing programs, aiding faculty teaching, and being of educational service to the school and to the outside community.

The project will involve the purchase of the last four of ten films entitled, R. Buckminster Fuller - The World Game. The series moves from the scientific to the philosophic, from theory to practice, and traces the growth of Fuller's thought.

The College owns the first six films, which deal with Fuller's vocabulary and main concepts. The films we are interested in obtaining deal with concepts in World Game playing. Film seven deals with studies in population, power networks, and world man. Film eight treats metal and energy resources, food production and distribution, and the history of industrialization as an index of man's development around the world. Film nine brings the World Game objective into focus, namely "to design a closed power grid over the face of the earth which will provide every man, woman and child with 2000 kilowatt-hours of power for meeting his minimum food and energy requirements." Film ten is a summary of the preceding films and concepts, and challenges the audience "to make the achievements of World Game simulation a reality." The following explanation by Dr. Fuller is quoted in full because it defines the World Game concept.

The World Game is a scientific means for discovering the expeditious ways of employing the world's resources so efficiently and omnicompetently as to be able to provide a higher standard of living for all humanity - higher than has heretofore been experienced by any humans - and on a continually sustainable basis while enabling all of humanity to enjoy the whole of planet earth without any individual profiting at the expense of another and without interference with one another, while arresting pollutions and conserving the wild resources and antiquities. The World Game discards the Malthusian doctrine which is the present working assumption of the major states which holds that humanity is multiplying much more rapidly than it can supply resources to itself, and compounds Darwin's survival of the fittest, to assume that only the side with the greatest arms can survive. The World Game - an assimilated, logistical operation for 40 years - has already demonstrated beyond question that the Malthusian doctrine is fallacious and that by committing all the high technology resources now going into the world's annual 150 billion dollar war making facilities, all of humanity can be brought to economic success within one quarter century - thus eliminating the fundamental raison d'être of war. The World Game employs the general system logistics for the recognized use of the world's resources and employs comprehensive and progressive ways of producing higher
performance per units of invested time, energy and know-how... The World Game makes it possible for intelligent amateurs to discover within a few weeks of research and interest that the foregoing premises are valid.

- R. Buckminster Fuller
WORLD GAME REPORT

A detailed description of the film series and each individual film is appended to the application.

The project will involve the cooperation of Video Tape Network, 115 East 62 Street, New York 10021, from whom the films and taping rights will come; and the College’s Audio Visual department and Learning Resource Center, who will process, catalog, run, repair and store the films and video-tapes.

Specific Problems

1. The films the College now has are incomplete. Although six of the ten World Game films have already been obtained, the College needs to complete the series, which are chronologically ordered in terms of conceptual priorities and Dr. Fuller’s educational strategies.

2. The desired outcome is to have the only existent documentary of R. Buckminster Fuller’s innovative ideas and teaching available as an experiential and interdisciplinary resource for the entire College, and specifically for programs in the sciences, humanities and fine arts. However, practically all community college programs can benefit viewing the work of this famous design scientist.

3. Santa Barbara City College already has six of the ten World Game films, and instructors and students who have utilized this material will be able to complete viewing the whole series in the way the film series is meant to be viewed, namely, chronologically.

Population Served

1. The entire student population will be served, as well as all the instructors in the humanities, sciences and fine arts. In addition, the Santa Barbara community will periodically be able to view these films, either in public showings or at the Learning Resource Center, where they will be video-taped and kept.

2. Over 600 people have attended College showings of the first six films. Additional video-tape showings in the Learning Center numbered 289 separate viewings. Over 100 students were queried, and responded that they would like to see more of the series. Over 20 faculty members responded to query
that they would utilize the films, if available. Over ten instructors have now shown these films to their classes during the last two semesters. Recorded tabulations are appended to the application.

It is estimated for 1979 that over 500 students will view the films we now have, and more would be expected should we obtain the whole series.

Objectives

1. The goal of the project is to improve the experiential and interdisciplinary bases of instruction and learning at Santa Barbara City College, through the presentations of a comprehensive series of films which demonstrate the ideas and work of one of the most interdisciplined and comprehensive global thinkers and innovators in the world today, R. Buckminster Fuller.

2. All of the proposed budget is allocated for these objectives.

Activities

1. The films will be shown in classrooms, in Forum and auditorium presentations; with video-tapes in the College's Learning Resource Center.

2. (a.b.&c.) Teachers will utilize films, projectors for classroom showings or videotapes in classrooms where monitors are available. Students will utilize the video-tapes of all the Fuller films, which will be on hand in the Learning Resource Center.

Since exposure and dissemination are the main means to initiate the more unquantifiable educational objectives, evaluation will be based on a running tabulation of the number of times the films and the video-tapes are shown.

Expected Impact and Transferability

1. All teachers and classes at the College - but especially those in the humanities, sciences and fine arts will be able to take continual advantage of these films.

2. The films will last approximately ten years, before wearing, and the video-tapes will last indefinitely.

3. There is the possibility of offering these films to the Santa Barbara community - as the College has done in the past, with the six films we now possess - thereby bringing the work and ideas of Dr. Fuller to a wider community audience. The films can be loaned to other schools in the District as well as other community colleges.
## Budget Summary

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<th>Classes</th>
<th>Local Funds</th>
<th>Funds for Improvement of Instruction</th>
<th>Total</th>
</tr>
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<td>4000 (supplies, equip.)</td>
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<td>6000 (local capital outlay)</td>
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<td>7000 (other outgo)</td>
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<td>7900 (contingencies)</td>
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<td></td>
<td>TOTAL request</td>
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<td>$1323</td>
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## Breakdown

- **4000 - cost of four films @ $225 = $900**
- **video-taping rights @ 60 = 240**
- **tape processing @ 25 = 100**

**1240**

- **7000 - shipping and insurance**

**30**

- **7900 - film operator's fees for showing 10 films**
- **repair contingencies**

**150**

**50**

**$1470**
Evaluation Plan

1. Evaluation has already been carried out with the films we now possess. We made a tabulation of film usage through the Audio Visual and Learning Resource Center. The figures listed under Population Served (supra) are, in part, their findings. At this time the project does not warrant more detailed and sophisticated evaluation procedures. Exposure and intra-school dissemination are the main immediate means for bringing about the educational objectives of the project.

2. The methods we will use to collect evaluation data will be based on tabulations of total usage on the campus.

Dissemination

1. & 2. Although this section is not directly applicable to this particular project, the films themselves may be disseminated in a number of ways. For example, they may be shown to the general public, to other schools in the area; announcements of our showings could be made to the papers in the County; and because the films have such fundamental and inter-related subject matter and concerns, and are at the same time wide-ranging, they could be shown to visiting faculty attending conferences at the College. Further, an Adult Education course in the work and theory of R. Buckminster Fuller might be given, using the films as an experiential basis for discussion. Lastly, the College would be willing to present workshops at other community colleges in the State on the design science ideas of Dr. Fuller, using these films as a basis for the workshops.

Enclosures follow.
THE PRESENTATIONS

This series progresses in an outward movement from the scientific to the philosophic, from the theoretical to the practical, and traces in miniature the growth of Fuller's thought. The first six films deal with the terms of Fuller's special vocabulary. The next three employ the concepts in WORLD GAME playing. In the tenth film Fuller summarizes his work and challenges the audience to make the achievements of WORLD GAME simulation a reality.

The following material presents briefly the content of each film.

1. THE STRUCTURE OF NATURE

or

i'm going to take you to breakfast
yesterday morning

Without preliminaries Fuller specifies the foundation stone of his work. It is the essential honesty or integrity of nature's geometry. Natural structures are analyzed, and the practical meaning of nature's oscillation between symmetry and asymmetry, expansion and contraction, is discussed. Fuller himself is in perpetual motion before the camera - using knots; rope; and the icosahedron with its base, the tetrahedron, to bring his thesis to life.

2. SYNERGY

or

nobody can throw a straight ball

Synergy, the behavior of whole systems unpredicted by the behavior of any of its parts, is one of the most useful of nature's invisible properties. Because people are not generally aware of the existence of synergy, they are confined by a false view of the physical world found in the axiom: "A chain is no stronger than its weakest link."

In fact, the sum of the whole is often greater than the sum of its parts, and Fuller uses a common example of chrome nickel steel, among other things, to demonstrate his meaning. It is synergy which cements Fuller's concept of "total world", and which is displayed in the Dymaxion Sky-Ocean World, Fuller's patented projection of the earth without visible distortion. Earth is seen and treated as a "one world island in one world ocean."

The discovery of the "fundamental complementarity" of earth's physical systems was essential to Fuller's world-view since it pointed the way to advanced mathematical expression. With that expression man is able to get to the "utterly non-sensible, non-sensorial." to the "absolutely real" for the formulation of new problem-solving bases.

3. MORE WITH LESS

or

no scientist has ever looked
at the plumbing

Now, examining our data, we find that it's very essential
to think in terms of human beings. If you have a lot of human beings and very little material, the fact that it seems sizeable enough for one person doesn't mean it's going to be adequate at all.

In spite of Fuller's seemingly exclusive concern with design and engineering, everything he does is subordinate to delivering a world whose resources man can use so effectively that there is material enough for all to live complete and satisfying lives.

Fuller gives his personal account of how he became concerned with this problem, and how he employed the insights of his years with the Navy to help him find an answer. The ship is a metaphor of the human condition aboard "Spaceship Earth." Like Earth, the ship is a "closed" entity that depends for its flotation and survival in conflict first on design and then on those aboard to keep parts and systems functioning effectively.

Man must become a "generalist," must use his intuition, his synergetic ability to see comprehensive patterns in apparently random events. This faculty permits him to deal with "total world" irrespective of states, boundaries, or political ideology. For this purpose Fuller conceived his "comprehensive anticipatory design science," which attempts to predict man's energy, food, and demographic requirements and to employ the knowledge at his command to fill his needs. Using this procedure, man will automatically be accomplishing "more with less" - doing more work for more people in a more complete and advanced a manner with an ever diminishing supply of natural wealth.

4. MAN'S FUNCTION IN THE UNIVERSE

or

i'm only now beginning to understand waterfalls

This section is an exploration of Fuller's metaphysics. Its chief tenet is that man differs from other biological organisms in his ability to think. To conceive an idea and to express it in logical form. It follows from this, Fuller believes, that it is man's function to receive
thought from his mind and to objectify it by putting it to work in a manner consistent with the dictates of its form. Intellect gives rise to and complements function.

Through concrete illustrations Fuller examined the operation of man's dual nature. He demonstrates that the job of controlling the world, of developing it according to a rational plan, depends a priori upon man's "synergetic capability," or his mind's capacity to handle in new ways the problems set before it.

5. FROM MYTH TO TECHNOLOGY
or
the real story of the garden of eden

Fuller ranges over human history, beginning with man's obscure origins in the East, and follows him from his subjection to myth westward to the dominance of his world with the aid of technology. His account is proof that man himself is the bridge between Science and Humanism, and that his actions only reinforce the fundamental unity of the two. It is a life-enhancing view, which confirms one's impression that Fuller's place is among the important creative thinkers of our time.

6. DESIGN ACHIEVEMENT
or
when there's enough to go around
people don't organize to fight

Fuller argues that from ship to rocket, from simple housing structures to complex skyscraper design, man has time and again proved himself possessed of new visions for his future and then proceeded to discover the means with which to make them fact. He has marshaled the forces necessary to make his adventure on earth a success. Fuller's positive beliefs restore a measure of optimism to an often negative world: "Man is supposed to be a success. He's designed to be a success...And the idea that he wasn't ever to be a success is pure ignorance."

7. PLAYING WORLD GAME
or
a hundred million horses going nowhere

8. PLAYING WORLD GAME
or
how to get energy without using things up

9. PLAYING WORLD GAME
or
getting power to the people

Specifically, WORLD GAME was intended to be a refutation of John Von Neuman's war game theory, which holds that one side or the other must die either by destruction or starvation. The following statement by Fuller from WORLD GAME REPORT is worth quotation in full since it defines the essence of WORLD GAME and synthesizes the contents of the three continuous parts.

The WORLD GAME is a scientific means for discovering the expeditious ways of employing the world's resources so efficiently and ominously as to be able to provide a higher standard of living for all of humanity - higher than has hitherto been experienced by any humans - and on a continually sustainable basis while enabling all of humanity to enjoy the whole of planet earth without any individual profiting at the expense of another and without interference with one another, while arresting pollutions and conserving the wild resources and antiquities. The WORLD GAME discards the Malthusian doctrine which is the present working assumption of the major states which holds that humanity is multiplying much more rapidly than it can supply resources to itself, and compounds Darwin's survival of the fittest, to assume that only the side with the greatest arms can survive. The WORLD GAME - an assimilated, logistical operation for 40 years - has already demonstrated beyond question that the Malthusian doctrine is fallacious and that committing all the high technology resources now going into the world's annual 150 billion dollar war making facilities, all of humanity can be brought to economic success within one quarter century - thus eliminating the fundamental raison d'être of war. The WORLD GAME employs the general system logistics for the recognized use of the world's resources and employs comprehensive and progressive series of ways of producing higher performance per units of invested time, energy, and know how and each and every component function for the over all scheduling. The WORLD GAME makes it possible for intelligent amateurs to discover within a few weeks of research and interest that the foregoing premises are valid.

Throughout the three films the seminar students demonstrate that "the foregoing premises are valid." They present the findings of their research, and Fuller comments and expands on them.

Film seven deals with studies in population, power networks, and world man. Eight treats metal and energy resources, food production and distribution, and the history of industrialization as an index of man's development around the world. Nine brings the foregoing data plus material from all preceding films to bear on a projected move, or scenario, in WORLD GAME. The objective is to design a closed power grid over the face of the earth which will provide every man, woman, and child with 2000 kilowatt-hours of power for meeting his minimum food and energy requirements. "What we've found...is that we bring everything back to power, getting power to the people and distributing it equally among all the people."

10. WORLD GAME CAN WORK
or
politicians will yield to the computer

An extensive, free-wheeling session, Fuller touches all the bases once again, but the main thrust of the final film is a reasoned plea for man to abandon the political struggles that sap his strength and prevent him from realizing his potential. With global cooperation and responsible use of the computer's assistance capability, WORLD GAME can be made to work. "Do you really want to stay intransigent, one against the other, or will you integrate? Because if you integrate, your networks can't really separate politically ever again. They're going to put in a computer, and they're going to find they integrate night and day, and both sides are going to profit fifty percent."
SANTA BARBARA CITY COLLEGE

To: Merv Lane

From: Carol Price

Re: Buckminster Fuller Films for Forum

12/16/76

Many thanks, Merv, for arranging for the showing of the R. Buckminster Fuller films at the three (four) noon Forums on November 3, 10, December 1 (and 8). The film forums were the best attended of any of the forums we've had this year. Especially on November 3 and 10, not only students, faculty, staff attended but also a goodly number of community people came. In fact, for the first two showings, all seats in P.S. 101 were filled and people were standing or sitting on the steps.

Your planning to have Peter Malakoff (sp?) introduce the films worked out very well. As you may know, because of technical difficulties just one instead of two films was shown December 1. Since I had a cancellation on December 8, Peter used the film "Design Achievement" that date, and he discussed questions with the audience.

A total of some 350-375 people enthusiastically viewed the films that A-V presently has on hand. Perhaps we had less than full attendance for the last two showings since the evening re-runs had begun by December.
SANTA BARBARA CITY COLLEGE

TO: Improvement of Instruction Committee  DATE: March 10, 1976
FROM: Nicholas Hanson  RE: R. Buckminster Fuller

I would like to see the other 9 Buckminster Fuller films.
I found "From Myth to Technology" interesting and informative.

NOTE: We received 100 and more
of these after the first trial showing of
a rental.
May 18, 1975

To: All faculty

From: Herb Lane, English and Physical Education Divisions

Dear Colleague:

I am seeking funding for ten films, descriptions of which are attached. If the College or County possessed them, would you use any or all of them for your classes?

☐ Yes. I would use them.

☐ No. I would not use them.

(Please return to my mailbox as soon as you can.)

Thanks very much,

NOTE:
We received 20 faculty affirmative responses 5/75
THREE-PART BUCKMINSTER FULLER FILM SERIES BEGINS WEDNESDAY (NOV. 3) AT SBCC


Admission is free and open to the public. Each film is 30 minutes.

Fuller, inventor of the geodesic dome, is a lecturer, world traveler, author, architect, engineer, scientist and poet. He is the inventor-discoverer of energetic-synergetic geometry, and pioneer of the Dymaxion world map and 4-D house and automobile.

"More with Less" and "Man's Function in the Universe" will screen Wednesday, Nov. 10; "From Myth to Technology" (or The Real Story of the Garden of Eden) and "Design Achievement," Wednesday, Dec. 1, in the SBCC forum series, also in PS-101 at noon.

The films are from a 10-part World Game series produced by Video Tape Network, Inc., New York.

Fuller is also the author of "Synergetics," "Untitled Epic" (Poem on the History of Industrialization," "Utopia or Oblivion: The Prospects for Humanity," "Earth Incorporated," "Education Automation: Freeing the Scholar to Return to his Studies" and others.

The showing was arranged by Mervin L. Lane and forum chairperson Mrs. Carol L. Price, SBCC English department faculty.

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(bwjwilliams) (10/25/76)
R. BUCKMINSTER FULLER FILMS BEING
REPEATED FRIDAYS (DEC. 10 & 17) AT SBCC

Additional R. Buckminster Fuller films, "Doing More with Less" and "Man's Function in the Universe," will be shown Friday (Dec. 10) at 7:30 p.m., in Santa Barbara City College's physical science lecture hall (PS-101).

"Design Achievement" and "From Myth to Technology," final half hours in the six-film series, will screen Friday, Dec. 17, also at 7:30 p.m., in PS-101.

The films describe Fuller's ideas of the structure, function and nature of the universe and man's place in it.

A $1 donation is requested. Showings are open to the public.

Funds will be used to purchase permanent video rights to the films, SBCC English department, event sponsor, personnel said.

Fuller, who invented the geodesic dome, is a lecturer, architect, engineer, scientist and writer.

The films are being repeated because of the overwhelming response to recent campus showings, officials said.

###

(bwjwilliams) (12/6/76)
SANTA BARBARA CITY COLLEGE

TO: All faculty
FROM: Merv Lane

DATE: September 27, 1976
RE: Fuller films

Dear Colleague:

The following half-hour films of R. Buckminster Fuller lecturing on his World Game concept may be utilized for classroom showings and are now available from the Audio-Visual Department in the Humanities building:

1. The Structure of Nature
2. Synergy
3. More with Less
4. Man's Function in the Universe
5. From Myth to Technology
6. Design Achievement
Fuller films to be shown Friday

Additional R. Buckminster Fuller films, "Doing More with Less" and "Man's Function in the Universe," will be shown at 7:30 p.m. Friday in Santa Barbara City College's physical science lecture hall (PS-101).

"Design Achievement" and "From Myth to Technology," final half hours in the six-film series, will screen Dec. 17, also at 7:30 p.m., in PS-101.

The films describe Fuller's ideas of the structure, function and nature of the universe and man's place in it.

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FILM SERIES

"Doing More With Less" and "Man's Function in the Universe." Physical Science Bldg., Rm. PS-101, Santa Barbara City College, 721 Cliff Dr., 965-0581.


TUES 12-10-76

GOINGS ON

Two Fuller films added to series

Two additional showings of R. Buckminster Fuller films, describing his ideas of the structure, function and nature of the universe and man's place in it, have been scheduled for Santa Barbara City College.

Showings will be Friday, Dec. 10 and 17 at 7:30 p.m. in SBCC's physical science lecture hall (PS-101).


The six half-hour films were recently shown on campus at noon by SBCC's forum committee.

A $1 donation is being requested. Funds will be used to purchase permanent video rights to the films, according to SBCC's English department, event sponsor. Showings are open to the public.

Fuller, inventor of the geodesic dome, is a lecturer, world traveler, architect, engineer, scientist and poet. He is author of "Operating Manual for Spaceship Earth," "Synergetics," "Earth Incorporated," and many other books.

Films: "Design Achievement," and "From Myth to Technology," both by inventor, architect, designer, engineer and poet Buckminster Fuller, showing at 7:30 in SBCC room PS-101; $1.

Films: "Doing More with Less," and "Man's Function in the Universe," both by Buckminster Fuller, the inventor of the geodesic dome, architect, designer, engineer and poet; showing at 7:30 in PS-101 on SBCC campus; $1.

12/11/76

LAST FULLER FILMS ON NEXT FRIDAY

Additional R. Buckminster Fuller films, "Design Achievement" and "From Myth to Technology," final half hours in the six-film series, will screen Friday, Dec. 17, at 7:30 p.m., Santa Barbara City College's physical science lecture hall (PS-101).

The films describe Fuller's ideas of the structure, function and nature of the universe and man's place in it.