

College of Engineering

Engineering Resource Center records

COLLECTION SUMMARY

- Title:** College of Engineering, Engineering Resource Center records
- Dates:** 1963-1965, 1967, 1970-1982, 1988-2000, 2004-2005, 2008, [n.d.]
- Creator:** Engineering Resource Center, College of Engineering, South Dakota State University
- Physical description:** 1 linear feet—1 container
- Collection number:** UA 8.5
- Language:** Collection material in English.
- Repository:** South Dakota State University Archives, Hilton M. Briggs Library, South Dakota State University, Brookings, S.D.
- Abstract:** Collection is composed of material generated by programs within the Engineering Resource Center: Office of Remote Sensing, South Dakota Space Grant Consortium, South Dakota Local Transportation Assistance Program, University/Industry Technology Service, Publications, and Essential Networking and Training for Entrepreneurship.

ADMINISTRATIVE INFORMATION

Provenance: This collection was found in the Archives in 1997. There is no indication of where they came from or how they came to be here.

Dr. Suzette Burckhard of the College of Engineering transferred the Photogrammetry images and pocket stereoscopes that are found in the remote sensing portion of this collection to the Archives during the fall of 2003.

This is an on-going collection with material arriving through departmental records transfers, the university campus mail, or random donation by various individuals.

Access Restrictions: This collection is open to research without restriction. Items in this collection do not circulate and may be used in-house only.

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available copyright information on request. Please note that most collections, especially those received before 1997, may not have complete information on file. (Revised 15 SEP 2003)

Preferred citation: [Identification of item]. College of Engineering, Engineering Resource Center records, UA 8.5, South Dakota State University Archives, South Dakota State University, Brookings, S.D.

Processing information: This collection was processed by Crystal J. Gamradt on March 3, 1999 with revisions on August 19, 2008 (cjb).

SELECTED SEARCH TERMS

The following terms have been used to index the description of this collection in the subject guide. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

Subjects

- Aerial photographs.
- Engineering Exploration Days—South Dakota State University.
- Engineering Resource Center—South Dakota State University.
- Engineering Resource Center—Newsletters—South Dakota State University.
- ENTRE (Essential Training and Networking for Entrepreneurship)—South Dakota State University
- Office of Remote Sensing—South Dakota State University.
- Office of Remote Sensing—Newsletters—South Dakota State University.
- Photogrammetry.
- Signal Analysis and Dissemination Equipment.
- South Dakota Local Transportation Assistance Program—South Dakota State University.
- South Dakota Local Transportation Assistance Program—Newsletters—South Dakota State University.
- South Dakota Local Transportation Assistance Program—Seminars and workshops—South Dakota State University.
- South Dakota Space Grant Consortium—South Dakota State University.
- South Dakota Space Grant Consortium—Newsletters—South Dakota State University.
- Stereoscopes.
- University/Industry Technology Service—Congresses and conventions—South Dakota State University.

BACKGROUND NOTE

The Engineering Resource Center, established in 1986, exists to serve the university, citizens, and industry in South Dakota. Complementary outreach and/or technology transfer programs combine to make up the center. Thus, the knowledge gained from one program often supports or strengthens another program. The programs are: 1) Engineering Extension; 2) Office of Remote Sensing; 3) South Dakota Space Grant Consortium; 4) South Dakota Local Transportation Assistance Program; 5) University/Industry Technology Service;

6) Manufacturing Extension Partnership; and 7.) Essential Networking and Training for Entrepreneurship.

The Engineering Resource Center may undertake projects directly or use project teams composed of students, university faculty, and non-university experts. These teams may be discipline-specific or interdisciplinary. The center has an on-line expertise database to identify potential faculty and industrial consultants. Another database contains information on the manufacturers and processors in South Dakota.

Related Material:

Helder, Dennis Lynn, Image processing, Brookings, S.D., The University, 1993. [Archives: TA1637.H46 1993]

South Dakota Local Transportation Assistance Program, The connection, Brookings, S.D., South Dakota Local Transportation Technology Transfer Service, South Dakota State University, 1988- [Periodicals/Lower level: 352.915 C74]

South Dakota State University, Engineering and Environmental Research Center, Faculty expertise directory, Brookings, S.D., South Dakota State University, Engineering and Environmental Research Center, 1990. [Archives: S537.S6 A2117]

South Dakota State University, Engineering and Environmental Research Center, Faculty expertise directory, Brookings, S.D., South Dakota State University, Engineering and Environmental Research Center, 1993. [Archives: S537.S6 A2117 1993]

South Dakota State University, Engineering and Environmental Resource Center, Infogram, Brookings, S.D., South Dakota State University, College of Engineering, Engineering Resource Center, 1997. [Periodicals/Lower level: 338.926 In3]

South Dakota State University, Remote Sensing Institute, Save energy (and dollars) with aerial thermography from the space people, Brookings, S.D., The Institute, 1977. [SD Collection: TH7341.S68]

South Dakota State University, University/Industry Technology Service, University/Industry Technology Service strategic plan, Brookings, S.D., UITS, Engineering and Environmental Research Center, South Dakota State University, 1992. [Archives: S537.S6 S608 1992]

SCOPE AND CONTENTS NOTE

This collection is composed of material generated by programs within the Engineering Resource Center: Office of Remote Sensing, South Dakota Space Grant Consortium, South Dakota Local Transportation Assistance Program, University/Industry Technology Service, Publications, and Essential Networking and Training for Entrepreneurship.

The **General center records** consist of items published by the Engineering Resource Center. Folders contain newsletters and a faculty expertise directory.

The **Office of Remote Sensing** was established in 1969 as the Remote Sensing Institute. Senator Karl Mundt was instrumental in bringing the program to South Dakota. It is funded by both state and federal funds. Its purpose is to use multispectral remotely sensed imagery and geographic information systems for natural resource studies and mapping projects in South Dakota and throughout the world.

This series is composed of correspondence, newsletters, brochures, reports, photogrammetry images and pocket stereoscopes. The pocket stereoscopes are used in reading the photogrammetry, or aerial photographs.

The **South Dakota Space Grant Consortium** is a program funded in part by the National Aeronautics and Space Administration. Consortium members are South Dakota State University, South Dakota School of Mines and Technology, Augustana College and the EROS Data Center. Goals of the Consortium are to create an enthusiasm for aerospace science among students and faculty and to encourage them to pursue careers in related fields.

This series is composed of newsletters, research award announcements, and applications and information pertaining to faculty, graduate and undergraduate assistantship awards.

The **South Dakota Local Transportation Assistance Program** assists local governments with technology and information needed to operate their transportation related agencies.

This series is composed of newsletters, brochures, catalogs, and special bulletins.

The **University/Industry Technology Service** links university resources to industry, business and government to solve technological problems and enhance economic development in South Dakota.

This series consists of brochures and programs from symposiums hosted by the University/Industry Technology Service.

The **Essential Networking and Training for Entrepreneurship [ENTRE] program** provides training for people who may have an interest in pursuing entrepreneurial opportunities. This is an intensive 10-session course that allows participants to test and research their business ideas. The mission of ENTRE is to foster and promote entrepreneurship and economic development in the state and to develop programs for the general business community or various specialty groups.

This series consists of a newsletter and a brochure outlining the ENTRE program.

ARRANGEMENT of the RECORDS

This collection is arranged into six series: General center records, Office of Remote Sensing, South Dakota Space Grant Consortium, South Dakota Local Transportation Assistance Program, University/Industry Technology Service, Publications, and Essential Networking and Training for Entrepreneurship.

SERIES 1: General center records**Box 1.**

Folder	Description	Dates
1	Engineering Research Bulletin (newsletter)	1989 January-1993 October
2	Faculty Expertise Directory	1993 January
3	Infogram (newsletter)	1988 November-2000 January

SERIES 2: Office of Remote Sensing records**Box 1.**

Folder	Description	Dates
4	Aerial Thermography (brochure)	1977
5	GIS news in South Dakota (newsletter)	1991 October
6	Multidisciplinary team building for issues in sustainable agriculture and natural resources development (memorandum)	1988 September 26
7	Narrative Progress report	1970-1972
8	Photogrammetry Images - Airports	1970 June 2, [n.d.]
9	Photogrammetry Images - Bemidji, Minnesota	1967 May 21
10	Photogrammetry Images - Big Bend on Missouri River (SD) and dam	1965 June 21
11	Photogrammetry Images - Meriden, Connecticut	1965 April 22
12	Photogrammetry Images - Missoula, Montana	[n.d.]
13	Photogrammetry Images - Rough farmland and trees	[n.d.]
14	Photogrammetry Images - SDSU campus and Brookings, SD	1963 April 3 ; 1980 November 6
15	Photogrammetry Images - Sisseton, SD and Pierre, SD	1970 May 17, [n.d.]
16	Photogrammetry Images - Thebes, Illinois	1964 April 9
17	Remote Sensing Institute (brochure)	1970 March
18	Remote Sensing Institute newsletter	1970-1982
19	SADE (Signal Analysis and Dissemination Equipment) (reprint article)	1972 Fall
20	Soil texture, soil slope and soil test results on the ERTS mosaic of South Dakota (pamphlet)	1974 circa
21	TM Pocket Measuring Stereoscope (Zeiss) (2 artifacts)	[n.d.]
22	TM Pocket Stereoscope (Zeiss) (2 artifacts)	[n.d.]
23	Visiting International Scientist Program (brochure)	1975 circa
24	Visiting International Scientist Program report	1981 February

SERIES 3: South Dakota Space Grant Consortium records**Box 1.**

Folder	Description	Dates
25	EROS Summer Faculty Research Award, Undergraduate Research Award, Graduate Assistantship (announcement)	2000 February 1
26	Faculty Summer Research Program (application, information)	1993, 2000
27	Graduate Assistantships (application, information)	1998-2002
28	Reaching Out (newsletter)	1993 September-1998 Winter
29	Undergraduate Research Awards (application, information)	1998-2001

SERIES 4: South Dakota Local Transportation Assistance Program records**Box 1.**

Folder	Description	Dates
30	The Connection (newsletter)	1988 Fall-1995 Fall
31	The Connection (newsletter)	1996 Spring-1999 Fall
32	The Connection (newsletter)	2004, 2005, 2007-2008
33	Metric Highway Maintenance Tables (inspection guide)	1997 January
34	Printed Materials Catalog	[n.d.]
35	Roads Scholar Program (workshops, brochure)	[n.d.]
36	South Dakota Local Transportation Assistance Program (brochure, info sheet)	1998, [n.d.]
37	T3S Special Bulletin Series, no. 3-34, 38	1992-1999, 2007
38	Traffic Control Practices for Low Volume Local Roads	1993
39	Video catalog	[n.d.]

SERIES 5: University/Industry Technology service records**Box 1.**

Folder	Description	Dates
40	Symposium - Engineering Exploration Days (brochure)	1990 April 5-6
41	Symposium - Sioux Empire Quality Symposium: Total Quality Management (programs)	1989

SERIES 6: Essential Training and Networking for Entrepreneurship records

Box 1.

Folder	Description	Dates
42	ENTRE brochure	1999
43	ENTRE newsletter	1996-1997