Using Computer Technology to Aid Faculty Advising

GARY L. KRAMER, Director, Academic Advking, and

AUDREY MEGERIAN, Supervisor, Advking Centr, College of Biology and Agriculture, Brigham Young University

The faculty of a college or university are an integral part of the advising process. They are either the only source for assisting students with their academic advising needs, or they function as part of a larger advising system administered by centralized or decentralized advising professionals. In recent years, with the advent of computerized advising reports, peer advisors, and professional full-time advisors, it appears that student-faculty contact has d i s h e d. In many institutions faculty are unsure about their advising role, and students report lack of contact with faculty advisors. 1.2.1.4

It is critical that faculty be involved in advising students: the Literature amply supports both the need and the value of faculty advising. ^{3,6,7}

This article focuses on the use of in-place technology to assign preselected faculty advisors to students, enhancing faculty-studentcontact with incoming students. Specifically, the article describes a computer program that has created an *advisor file* and links advisor information with student records. The program provides for computer generated advisor-advisee

October 1985 51

R.W. Spencer, E.D. Peterson and G.L. Kramer, "UtilizingCollege Advising Centers to Facilitate and Revitalize Academic Advising," NACADA JOURNAL, 2, (1982), pp. 13-23.

G. Carney and A. Barak, "A Survey of Student Needs and Student Personnel Seminars," JOURNALOFCOLLEGE STUDENT PERSONNEL, 17, (1976), pp. 1804-284.

¹ L.R. Meeth, "Evaluation of Traditional Faculty Academic Advising Program." (unpublished paper, 1971).

C.J. Polson and A.P. Jurich, "The Departmental Academic Advising Center: An Alternative to Faculty Advising," JOURNAL OF COLLEGE STUDENT PERSONNEL. 20, (1979), pp. 249-252.

A.W. Astin, FOUR CRITICAL YEARS, (San Francisco: Jossey-Bass, 1977).

E.T. Pascarellaand P.T. Terrenzini, "Palterns of Student-Faculty Informal Interaction Beyond the Classroom and Volunteering Altercation," JOURNAL OF HIGHER EDUCATION. 48, (1977), pp. 540-552.

J.R. Wilder, "A Successful Academic Advising Program: Essential Ingredients," JOURNAL OF COLLEGE STUDENT PER-SONNEL. 22, (1981), pp. 488-492.

reports, letters of invitation to students to receive advising from faculty, and faculty advisor information on advising reports that are distributed to students each semester.

Background

Since 1976, **Brigham** Young University has provided students at the beginning of each semester a computerized academic advising progress report entitled **Advking by Computer** (ABC). This evaluation report links graduation requirements and shows student progressin completing those requirements. The **ABC** report specifies

- university and major requirements;
- university credits completed and applied to requirements;
- transfer credits accepted;
- a summary of all college credits; and,
- current enrollment.

Identical information is available on-line on computers in the advising centers. An advising center, established in each academic collegesince 1972 and staffed with full-time professional advisors, provides academic advising from 8:00 to 5:00 daily. At the center, each student can obtain up-todate information from someone trained in the use of advising data. The student is not restricted to a single advisor, but may be referred to a faculty member according to student need. Advising centers complement the work of faculty advisors, who consult on such in-depth matters as major requirements and career planning.

Problem

Generally, faculty are willing to interact with students beyond the classroom, and the Literature, as previously stated, underscores the importance of such faculty-student contact, especially for academic advising. The institution also values the role of faculty advising, because of its influence on student retention and student satisfaction with education. But the academic advising center and the computer report have decreased student contact with faculty advisors at B W . Although the informational needs of students were better met by advising center contacts, the faculty still were crucial and necessary for student advising contacts. To insure continued faculty involvement, the computer-aided faculty advising program was developed.

Developing Computer-Aided Faculty Advking

Through in-place technology, the ABC Progress Report and its integrated files, computeraided faculty advising can do the following:

- Consistently inform students who their assigned faculty advisor is and thereby bring
 faculty and students closer together so that students a) might receive advising in their
 major and professional direction in their career choices, and b) become acquainted
 with faculty in their field.
- Facilitate letting students know who their faculty advisor is before they enter the university.

52 October 1985

- Insert the faculty advisor's name, address, and phone number on student ABC Progress Report.
- 4. Keep the faculty advisor up-todate on number of advisees.

A faculty advisor file has been designed to build individual information on each faculty advisor selected by the department and assigned to advise students (see Illustration 1). The new fde, created from information submitted by each academic department and based on an assigned advisor code, lists specific demographic data about the faculty advisor and notes the advisor's area of expertise within the academic discipline — information important in making a wise accurate faculty-student assignment (see Illstration 2). This file generates a list of all assigned faculty advisors by department and expertise (see Illustration 3).

From the admission form, students select their major. The alpha listing of majors on the student admissions form is later converted **internally** by the university to a numeric six-digit code that represents the name of the college, department, and major or specialization within a major (see Illustration 4). Each semester a list of new incoming students by major or specialty is available. From this list and the faculty advisor list mentioned above, advisor-advisee assignments are made.

The assigned advisor code is inserted on the computer screen that list major classes (see Illustration 5). This record was chosen because in addition to the major, it lists the student's date of entry, related major/degree information, and was central to project needs. Programming made it possible to link the student major record, which includes an assigned advisor code, with individual student ABC Progress Reports (see Illustrations 5 and 6). This was the main focus of the project — to provide regularly and accurately to students, via the ABC Progress Report, the name and address of their faculty advisor. But to stretch the project's intent and to give it a more personal touch, each department chair was asked to write a letter of welcome to new incoming students that introduced the student's faculty advisor (see Illustration 7). A computer program was written to match student advisee with faculty advisor, to insert in the letter the name of the specific advisor and to generate automatically a letter for each new incoming student. In addition, because of these programming efforts, an advisor-advisee list and other relevant information are generated each term and sent to the appropriate faculty advisor (see Illustration 8).

Summary

Computer-aided faculty advising communicates to students, on a regular basis, who their faculty advisor is, and where the advisor is located. Similarly, faculty advisors, thanks to the advisor-advisee computer generated report, are aware of assigned advisees. Also, the computer-aided advisor system allows academic departments or advising centers to maintain, update, and monitor advisor-adviseefdes.

The advisor fde system's most attractive feature is its flexibility in making advisor-advisee assignments. **As** pointed out, the department administrator can preselect faculty for advising not only on the basis of academic expertise, but also other advisee characteristics or needs that can be matched to the background and interest of the advisor. For example, advisor-advisee assignments could be based on student academic standing (from probation to honors); academic class (from freshmen to **Ph.D.** candidate); teacher certification interest;

October 1985 53

new transfer status; older/re-entry students; students uncertain about their major selection; handicapped students; foreign or minority students.

Computer-aided faculty advising is a good compromise between mandatory advising and no requirement of a faculty-student relationship at all. Computer-aided faculty advising can influence the frequency of contact between advisor and advisees, provide precise information on who is advising whom, and efficiently assigns faculty advisors to students.

ILLUSTRATION 1

FACULTY ADVISOR INPUT SCREEN

646 **9/27/84** ADVISORS

ADVISOR CODE 005

NAME FACULTY ADVISOR

AREA OF EXPERTISE AG ECON ANALYSIS (26)

DEPT CODE 2824

DEPARTMENT AGRIC, ECONOMICS

COLLEGE BIOL & AGRIC

CAMPUS ADDRESS 473 WIDB

TELEPHONE 378-6036

BIOLOGY DEPARTMENT FACULTY ADVISORS

INTEREST AREA	Advisors	
Ecology Related Subjects	Dr. Barnes Dr. Pritchett Dr. Smith Dr. White	177 WIDB; 2434 173 WIDB; 2419 501 WIDB; 2492 161 WIDB; 4860
Physiology Related Subjects	Dr. Heninger Dr. Jaussi Dr. Rhees Dr. Winder	574 WIDB; 2006 585 WIDB; 2353 587 WIDB; 2158 549A WIDB;
Pre-medical and Pre-Dental	Any faculty in Department	
Freshwater and Marine Biology	Dr. Braithwaite Dr. Barnes Dr. Shiozawa	189 WIDB; 2462 177 WIDB; 2434 179 WIDB; 4972
Wildlife and Range	Dr. Smith	501 WIDB; 2492
Undecided and/or confused	Dr. Heninger OR ANY FACULTY MEMBER IN THE	574WIDB; 2006 DEPARTMENT

COLLEGE ADVISORS BY ADVISOR CODE

BIOLOGY DEPARTMENT

AOVCOOE	NAME	AODRESS	PHONE	COC	DEPT	DOPERTISE
0062	DORALD M. ALLRED	290 MLBM	378-5052	28	5 4	ENTOMOLOGY(23)
0063	GARY M. BOOTH	699 WIDB	378-2458	28	54.	ENTOMOLOGY/TOX:COLOGY(23)
0054	CLIVE D. JORGENSEN	537 WIDE	378-3815	2.6	54	ENTOMOLOGY/PEST MGT(23)
0065	ARMAND WHITEHEAD	#21 WIDB	378-4459	20	54	ENTOMOLOGY(23)
0066	CLYDE L. PRITCHETT	173 VIDB	378-2419	28	5 4	VER 200/VLD MGT(26)
0067	H. DUANE SMITH	501 VIDE	378-2492	28	54	WLDLF MGT, MAMMALDGY(26)
0068	A. LESTER ALLEM	597 WIDB	378-7659	28	54	OEVEL. BIO. POE-MEDICO
0069	FERRON L. ANDERSEN	123 VIDB	378-4145	28	54	PARASITOLOGY-PUB HELTH(31)
0070	JAMES R. BARNES	177 W I D~	378-2434	28	54	FRESHWATER BIOL-ECOLOGY (31)
007.1	RICHARD W. BAUMANN	163VI08/338ML8M	378-2175	28	54	. ♣ÇU#TIC ENTOM-ENTOM GEN(31)
0072	WILLIAM S. BRADSHAW	595 VIDB	378-3677	28	54	DEVELOPMENTAL BIOLOGY [31]
0073	LEE F. BRAITHWAITE	189 VIOB	378-2462	28	5 4	MARINE BIOLOGY(31)
0074	JAMES L. FARMER	591 VIDB	378-2153	28	54	MOLECULAR GENETICS(11)
0075	RICHARD HECKMANN	153 WIDB	378-2495	28	54	HISTOLOGY/FISH DIS/AGAUCUL(31)
0076	DUANE JEFFERY	589 WIDB	378-2155	28	54	GENETICS. EVOL BIOLDGY(31)
0077	JOSEPH R. MURPHY	167 WIDB	378-4075	28	54	ORNITHOLOGY. RAPTOR BID(31)
0078	R. WARD RHEES	587 ¥1 08	378-2158	28	54	PHYSIOLOGY, PHARMACDLOGY (31)
0079	MOBERT E SEEGMILLER	593 WIDE	378-2303	2 8	54	TERATOLOGY, DEV BIOLOGY(31)
0080	DENNIS SHIDZAWA	147A VIDE	378-4972	28	54	FRESHWATER BIDLOGY(31)
0081	JACK W. SITES. JR.	151 WICH	378-2279	28	54	EVOL BIOL/VERT 200/5/5/5/EMAIDID
0082	KENT M. VAN DE GRAAFF	BOIV TEE	378-2150	28	54	HUMAN AND COMP AMATOMY (31)
_0083	CLAYTON WHITE	161 VIDB	378-4860	28	54	VERTEBRATE RIOLOGY(31)
-0083 OOB4	WILLIAM Y. VINDER	549-A ¥108	378-3093	- 78	54	EXERCISE PHISIOL/(NDOCHINIDI)
0085	DUANE E, JEFFERV	589 VID	378-2155	28	30	CROP SCIENCE (31)

ADMISSIONS FORM

ALPHA LIST OF MAJORS

College of Biology & Agriculture

Agribusiness (Range Science) Agribusiness Management (Agricultural Economics) Agricultural Economics Analysis Animal Health Technology Botany Business-Producllon (Animal Science) Crop Science Entomology Farm & Ranch Management Food Industry Management Food Science Food Systems Administration Fruit-Vegetable Science Medical Dietetics Medical Technology Integrated Microbiology

Omamental (Horticulture) Premed-Dent (Botany)
Premed-Dent (Microbiology)

Premed-Dent (Zoology) Preprofessional Nutrition **Production-Agribusiness** (Agronomy) Range Resources Science-Prevet (Animal Science) Secondary Teaching Composite (Botany) Secondary Teaching Composite (Microbiology) Secondary Teaching Composite (Zoology) Soil Science Wildlife & Range Resources (Range Science) Wildlife & Range Resources (Žoology) Zoology

UNIVERSITY NUMERIC EQUIVALENT TO ALPHA LIST OF MAJORS

COLLEGE OF BIOLOGY AND ACRICULTUA

282420	AGRICULTURAL ECONOMICS	284300	MINOR SCIENCE & NUTRITION
282420	REAL ESTATE	284320	FOOD SCIENCE
282422	AGRIBUSINESS HGT	284322	INDICAL DIETETICS
282423	FARM & RANCH MGT	284324	FOOD SYSTEMS ADMIN
282424	FOOD INDUSTRY MGT	284325	PREPROFESSIONAL NUTRITION
242426	AGRIC ECON ANALYSIS	285100	MICROBIOLOGY
283000	AGRONOMY	285 120	HICROBIOLOGY
283029	SOIL SCIENCE	205124	PREMED-DENT HICROBIOLOGY
283030	PROD-AGRIBUSINESS	285200	HEDICAL TECHNOLOGY
283031	CROP SCIENCE	285220	HEDUCAL TECHNOLOGY
283100	HORTICULTURE	285400	ZOOLOGY
283124	FRUIT-VEGE SCIENCE	205423	ENTOHOLOGY
283125	ORHAMENTAL	205126	ULDLF & RANGE RESOURCES
283300	ANTHAL SCIENCE	285430	PREMIER-REHT ZOOLOGY
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283331	BUSINESS-PRODUCTION	289920	COMP TEACHING-BOTARY
283900	BOTANY	289921	COMP TEACHING-INTORO
283921	BOTANY	209922	COMP TEACHING-ZOOLOGY
283931	PREMED-DEUT BOTANY		
284000	RANGE SCIENCE		
284021	AGRIBUSINESS		
288022	RANGE RESOLECES		

YLDLF & RANGE RESOURCES

October 1985

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MAJOR SCREEN WHERE ADVISOR CODE IS INSERTED

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October 1985 59

COMPUTER GENERATED FACULTY ADVISOR LETTER



September 30, **1984**

Joe Student 11202 Helaman Halls Provo, UT 84604

Dear Joe:

We were very pleased to learn that you have **chosen** a major in zoology, and want to **take** this time to extend a **welcome** to you from our department. Our excellent faculty **and** facilities, plus the breadth of courses offered should provide you with a stimulating **and** rewarding university experience.

We have asked Dr. Sites we serve as your faculty advisor: he can be reached at the address below. His role is to advise you on all matters related to your major, including classes and specific occupations. If there is another faculty member you desire as your advisor, you are free to make a change when you get on the public.

Dynamic research is going on throughout the department and some undergraduate students have become so involved in these programs that they have been able to publish formal research papers. If your interests and abilities lie in this area, we urge you to keep this challenging and rewarding activity in mind.

We anticipate meeting you during the orientation of meet students where we will give you a more detailed introduction to our department and its facilities. Meanwhile, if we can be of assistance in any way, please contact us here in the department, either by letter or phone. We are in the office Monday through Friday, 8 to 5.

With all best wishes.

Richard W. Heninger, Chairman Department of Zoology

SENT TO STUDENTS BEFORE ON-CAMPUS ORIENTATION
574 WIDS 8 righam Young University Provo, Little 84462 USA (801) 379-3886

ADVISOR · ADVISEE LIST

BIOL & AGRIC

JACK ₩. SITES. JR. DEPARTMENT: ZOOLOGV

ASSIGNED STUDENTS:

		MAJOR							
NAME	SSN	COOL	MAJOR		CLASS	MAIL	ING ADDRESS		
BLACKHURST ALAN R	528-35-7458	285431	ZOOLOGY		FR	2615 NANTUCKET DR.	SALT LAKE CITY	UT	84121
FENTON WILLIAM CHARLE				200L		1614:22ND ME	AUBURN	MA	98002
HAARMANN TIMOTHY KARL	585-02-6088	285431	ZOOLOGV		FR	358 KIMBERLY	LOS ALAMOS	1466	87544
HATHAWAY EVAN WAYNE	519-84-3017	28543	ZOOLOGY		JR	152 SOUTH 100 MEST	REXBURG	ΙD	83440
HOLMES JASON EDWARD	572-25-9233	285430	PREMED-DENT	ZOOL	JR	988 NORTH 560 EAST	DREM	UT	84057
WINT OONALO EOVARD	114-64-6821	285430	PREMED-DENT	ZOOL	FR	2143 N 250 E	PROVO	UT	84601
MERRILL JAMEY RENAE	518-76-2622	285431	ZOOLOGY		FR	3851 WANDA	IDAHO FALLS	ID	83401
MURDOCK CAROLYN MATTE	529-27-1161	285430	PREMED-DENT	ZOOL	FR	457 E 600 S	HEBER CITY	UT	84032
PILLING MICHAEL J	078-68-8296	285430	PREMED-DENT	ZOOL	FR	BOX 182	MAGRATH	AB	CAN
THORPE GARY WAYNE	520-86-9443	285431	ZOOLOGY		FR	848 CUSTER STREET	CHEYENNE	. HTC	62009
WILSON FOWARD ALAN	550-37-1516	285431	ZOOLOGY		JR	3239 NOCOLET COURT	REDD ING	CA	96001