

→ 1968

Jobs Employment
Resume History
Addresses

UNIVERSITY OF DENVER College of Engineering

COLORADO SEMINARY

Department of Metallurgy

University Park, Denver, Colorado 80210

13 December 1967

Dr. Robert Dedrick, Chief
Chemical Engineering Section
Biomedical Engineering and Instrumentation Branch
Division of Research Services
National Institutes of Health
Bethesda, Maryland

Dear Bob:

As a starter I perhaps should re-introduce myself. I met you in Bethesda on Friday afternoon following the ACEMB meeting in Boston.

At the time we talked about your interest in building up within the chemical engineering section a competence in other areas of biomaterials. It is with respect to this that I am writing to you. We have a graduate student here named Joseph Andrade whose program involves the development of an anti-thrombogenic surface. (The program is an N.H.I. contract to Dr. Paul K. Predecki.) Joe has a 2S draft deferment until 30 June 1968 and is very seriously considering going into the P.H.S. officer commission program in order to fulfill his military obligation and at the same time hopefully to find a place to do biomaterials research. I feel in addition that like myself he senses the lack of appreciation and support for biomaterials research at the University and would prefer a more enthusiastic environment. Since it would not be fair to encourage him to remain here when we ourselves feel unsure, we would like to assist him in finding an appropriate location to continue his research.

Joe is a good student, very enthusiastic but requiring, I feel, a certain amount of directing every now and then to keep his enthusiasm from leading him up every interesting path that he comes to. He would like to totally enclose the research problems as he develops the attack. He has a good approach to research and is very capable in the lab.

I know he had a long talk with Frank Hastings at N.H.I. last week about the possibility of going into the P.H.S. officer program and being assigned on Hastings's staff.

Since this is really an introductory letter I will not attempt to provide much more general information about the fellow, but would be happy to provide a reference letter or any other information which would be of interest. And of course you could correspond directly with Joe.

Best wishes for the holiday season.

Sincerely yours,

David S. Crimmins
Assistant Professor

DSC/ca

~~Page 1~~ EMPLOYMENT
HISTORY

JOSEPH D. ANDRADE, JR.
#33757-12th St., Union City, Calif.
~~Question 14, 32.~~

DATES	POSITION	EMPLOYER'S ADDRESS	DESCRIPTION
1/57 2/65 to present	Student assistant. Part-time.	San Jose State College Dept. of Materials Sci. San Jose 14, Calif.	Instructing two technical laboratories. Sup.: Prof. James Anderson.
6/4 3/64 to 2/65 2/10/65	Management Trainee (Metallurgy). Full & Part.	U.S. Steel Corp. Met. & Inspection Dept. Pittsburg, Calif.	Study of metallurgical problems in a rod mill and recommendations for solution. Sup.: Mr. Bud Stout.
9/63 to 2/64	Student Assistant. Part-time.	San Jose State College Dept. of Materials Sci. San Jose 14, Calif.	Grading of exams and reports. Sup.: Dr. Zuhair Munir.
2/63 to 6/63	Student Electrical Engineering Trainee. Full-time.	Federal Aviation Agency 831 Mitten Road Burlingame, Calif.	Installation, alignment, tune-up, and repair of electronic aviation communications equipment. Sup.: Mr. John Eagen.
9/62 to 2/63	Student Assistant. Part-time.	San Jose State College Main Library San Jose 14, Calif.	Library clerk and labeler. Sup.: do not remember.
Summers, 60, 61, 62	Substitute Carrier. Full.	Union City Post Office Union City, Calif.	Sup.: Mr. John Monohan Delivering mail.
4/62 to 6/62	Laboratory Assistant. Full-time.	Richmond Field Station Univ. of Calif. Bldg 180 1301 S. 46th St. Richmond, Calif.	General electrical wiring for a model airport lighting system (Fog Chamber Project). Sup.: Mr. Higino Paula.
3/27/62- 4/6/62	Laborer. Full-time.	Cutter Laboratories, Inc. 4th and Parker Streets, Berkeley, 10, Calif.	General labor. Sup.: Beth Culp, Personnel.
9/27/61- 4/20/62	Clerk. Part-time.	Univ. of Calif., Main Library, Reserve Book Room, Berkeley 4, Calif.	General library clerking. Sup.: Mrs. Donald.
Summers 59, 60, 61	Laborer, Maint. Man. Full & Part.	Don Alvarado Co., Inc. 12th and 'H' Streets Union City, Calif.	Packing shed labor-general; also maintenance helper. Sup.: Mr. Al Solari, Owner.
4/1/60- 5/27/60	Lab Helper. Part-time.	Univ. of California Bio-Virus Laboratory Berkeley 4, Calif.	General chemical lab work: cleaning, mixing, sterilize. Sup.: Prof. Stent, Bio-Physics.
10/57- 6/59	Laborer, Maint. Man. Part-time.	Don Alvarado Co., Inc. 12th and 'H' Streets Union City, Calif.	General packing shed labor; also maintenance helper. Sup.: Mr. Al Solari, Owner.
9/57- 7/59	Gardener, Custodian. Part-time.	Levine Medical Clinic 1020 McKeever Ct., Hayward, Calif.	Gardening and janitorial work at Union City office. Sup.: Mrs. Kreuger, Nurse.
3/57- 3/58	Columnist. Part-time.	News-Register, Inc. Fremont, Calif.	Local gossip columnist. Sup.: George Oakes, Pub.
8/55- 7/59	Carry-out Clerk. Part-time.	Bert's Market (sold out) c/o 33719 Railroad Ave. Union City, Calif.	General grocery labor and carry-out. Sup.: Bert Joseph, Owner.

pre-9/58: Many miscellaneous selling jobs, fruit-picking, gardening, et.al.
If you notice that many of the dates above overlap, it is because I have often held two or three jobs simultaneously -- often one full-time and the others part-time; during school, all part-time.

Joseph Davilla Andrade Jr.
JOSEPH DAVILLA ANDRADE, JR.

References

YK = Years Known

All Supervisors As listed in Job History +:

Igor Skaredoff	36792 Magnolia Newark, Calif. Sycamore 3-1923	student YK: 6
Robert A. Holmstrom	2315 Dwight Way Berkeley 4, Calif. Thornwall 3-6551	Student Engineer YK: 3
Irving Hird	c/o Washington High School 38442 Fremont Blvd. Fremont, Calif. Sycamore T-1601	Hi School Principal YK: 4
Judson Taylor	c/o James Logan High School 1800 H St. Union City, Calif. Greenleaf 1-2520	Hi School Principal YK: 4
Joseph Roberts	2223 Jackson Fremont, Calif. Oliver 6-0698	Hi School Teacher YK: 4
James Armstrong	35832 Adobe Dr. Fremont, Calif. Sycamore 3-1817	Chemistry Teacher YK: 5
Hal Norton	c/o Univ. Students Co-op Ass. 2424 Ridge Rd. Berkeley 9, Calif. Thornwall 8-1936	Manager YK: 3
Harry Lowell	" " " "	Asst. Manager YK: 2

JOSEPH D. ANDRADE, JR.

33757-12th Street
Union City, California

Resume

Spring

Bio
1965

Telephone: 471-0185

PERSONAL DATA: Single 6'0" 160 pounds 23 years US Citizen

AVAILABILITY DATE: Feb. 1, 1966 (after completing 6 months in the military)

JOB OBJECTIVE: ~~To work outside of the United States for several years in extractive metallurgy, preferably in a supervisory capacity.~~

EDUCATION:

Materials Science Department San Jose State College
Candidate for the B.S. in Engineering in June, 1965.
In attendance from Sept., 1962 to present.
Dean's Honor List (3.40 average); American Society
for Metals Scholarship recipient; active in
Tau Delta Phi (men's honorary); president of
Student Association of Materials Engineers.
College expenses completely financed by own work
and scholarship.

College of Letters and Science University of California
In attendance from Sept. 1959 to Feb., 1962.
Honors at Entrance.
Cabrillo Civic Clubs Scholarship.
President, college dormitory.

EXPERIENCE:

US Steel Corp, Pittsburg, Calif....June, 1964 to present
Employed as student management trainee for summer,
1964...was offered and accepted a part-time week-
end job. Work deals with research and testing on
the quality of carbon steel rods...substantial
metallurgical and physical testing work.

Federal Aviation Agency.....Feb., 1963 to June, 1963
Employed as Electrical Engineer Student Trainee
on the Engineering Co-op program. Work dealt
with the installation, alignment, and testing of
avation communications equipment.

Earlier jobs included carrying mail for three consecutive
summers; gardening; industrial maintenance; cannery
labor; library clerking; grocery clerking; lab helper;
college reader; and fruit picker.

MILITARY:

No military service. Draft classification 2-S (student
deferment). Intend to enlist in the six-month
program -- ~~reserve obligation is commonly waived
while employed outside the United States or at a
great distance from a foreign US military installation.~~

INTERESTS:

Interested in Existentialist philosophy, creative writing,
sport parachuting, and politics.

REFERENCES:

References available from the Placement Center, San Jose
State College; San Jose 14, California

COLORADO ALPINE COLLEGE

FORMERLY YAMPA VALLEY COLLEGE

STEAMBOAT SPRINGS, COLORADO 80477

29 January 1968

The Andrades
2250 South Ogden Street
Denver, Colorado 80210

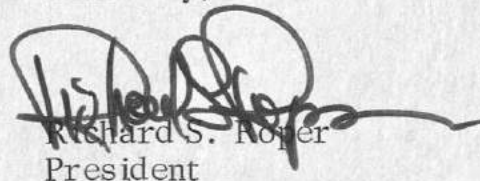
Dear Andrades:

It was so good to have your letter Joe expressing the interest of Mrs. Andrade and yourself in the possibility of joining the faculty of Colorado Alpine College. I thank you for your interest in our college and appreciate your concern.

From your letter you appear to be the exciting kind of young people we wish to attract to our campus. Your interest and preparation in interdisciplinary studies would appear to fit you into the kind of program we are endeavoring to build. I am most interested in Mrs. Andrades work in the T.E.F.L. program.

At the present time it is difficult for me to anticipate what replacement and growth needs for next year will be. I shall know better in approximately 30 to 60 days. Enclosed you will find some material on the college. Should you wish after reading this material to pursue the matter further, I shall be happy to hear from you.

Sincerely,


Richard S. Roper
President

RSR:bf

Enclosures

2250 So. Ogden Street
Denver, Colo. 80210
January 21, 1968

Richard S. Roper, President
Colorado Alpine College
Steamboat Springs, Colorado
80477

President Roper:

This is a letter of tentative application for two teaching positions at Colorado Alpine College:

My wife, Barbara, and I have been studying the literature and catalogs of Colorado Alpine (Yampa Valley) College for some time. We are both interested and intrigued by its adventure in education.

We are both graduate students, 26 years old, with an avid interest in teaching and travel.

Barbara is a candidate for the M.A. degree in Speech--Teaching English as a Foreign Language (TEFL) at the University of Colorado, Boulder. She will graduate in June, 1968.

I am a candidate for the Ph.D. in Metallurgy and Materials at the University of Denver. I am currently a National Science Foundation fellow in my third year of graduate work; I expect to graduate in August or December, 1968.

We have both had some rather limited teaching experience: Barbara spent two years with the Peace Corps in Colombia, S.A.; she speaks fluent Spanish, some French, and a trickle of Italian and Portuguese. She obtained a good deal of teaching experience as a result of her Peace Corps service, particularly in the teaching of health and hygiene. She has tutored foreign students in English at CU as part of the TEFL curriculum. She has also taught in a parochial elementary school in Denver.

I have taught general science, biology, and chemistry at a Denver parochial high school. I taught a one-quarter course last spring to junior college students in DU's College of Business Administration; the course was Introduction to Physical Science. I also taught a course in engineering materials at San Jose State College (San Jose, California), in addition to lecturing to undergraduate and graduate engineering students at DU.

Barbara took her B.A. in Humanities at the University of California, Berkeley, in 1963. Then she left for her Peace Corps service, returning in 1965. We were married in 1966 and she began her graduate work in TEFL in February, 1967.

I took my B.S. in Materials Science at San Jose State College in 1965 after changing majors from physics to math to electrical engineering. I entered graduate school at DU in Metallurgy in 1965 and shortly thereafter became interested in the application of materials in medicine. I decided to do my doctoral thesis in this field, even though such a research emphasis did not then exist at the University of Denver. The background for this research resulted in a thorough grounding in physiology, organic and polymer chemistry, and biochemistry. It also resulted in collaboration and discussion with doctors at the CU Medical Center and in other parts of the country. I am now working on a National Heart Institute contract to develop special polymer materials for use in the Artificial Heart Program.

We prefer to teach. And we would prefer to teach in a relatively small college where there is both the motivation and opportunity for intimate student-teacher communication and adventure. Barbara is well-qualified to teach TEFL or Spanish, preferable on a part-time basis. I am well-qualified and would prefer to teach in an interdisciplinary science department, especially one stressing the relationships between the life and the physical sciences. My graduate minor is in chemistry (organic and polymer), though I would not hesitate to teach physics, math, or biochemistry. I would be interested in developing a small interdisciplinary research program with and for interested students.

We have been in Steamboat Springs several times and have camped and picniced nearby. The area and your college both seem exciting.

Thank you for your kind attention.

Until your reply...

Sincerely,

Joe Andrade
Joe Andrade

2250 So. Ogden Street
Denver, Colorado 80210
March 7, 1968

Richard S. Roper, President
Colorado Alpine College
Steamboat Springs, Colorado 80477

Dear President Roper:

Thank you for your letter of January 29. You indicated in the letter that you would have a better idea of faculty requirements for the 68-69 school year in 30-60 days.

Barbara and I have studied the literature you sent us; it has confirmed our impressions and opinions.

We are still very interested in teaching at Colorado Alpine -- Barb in a TEFL or Spanish program and I in an interdisciplinary science program. We outlined our experience, educational background, and interests in the original letter of application (January 21, 1968). If you require any additional information, please let us know.

If you think there might be a place for us at Colorado Alpine, we would be happy to drive over some weekend and discuss the situation with you.

Thank you for your kind attention.

Sincerely,

Joe Andrade
Joe Andrade

May 1, 1968

Richard S. Roper, President
Colorado Alpine College
Steamboat Springs, Colorado 80477

Dear President Roper:

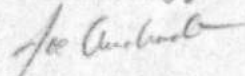
I trust that you have had time to review the application of my wife and I for a teaching position at Colorado Alpine.

We would be most willing to drive to Steamboat Springs and discuss the position with you, if something might be available.

We outlined our backgrounds and teaching philosophy in our original letter of application (Jan. 21, 1968). If you desire references, transcripts, or other supporting documents, please let us know.

In any event, please inform us so that we might be able to make plans for September, 1968.

Sincerely,



J.D. Andrade

UNIVERSITY OF DENVER

COLORADO SEMINARY

College of Engineering

Department of Metallurgy

University Park, Denver, Colorado 80210

May 1, 1968

Richard S. Roper, President
Colorado Alpine College
Steamboat Springs, Colorado 80477

Dear President Roper:

I trust that you have had time to review the application of my wife and I for a teaching position at Colorado Alpine.

We would be most willing to drive to Steamboat Springs and discuss the position with you, if something might be available.

We outlined our backgrounds and teaching philosophy in our original letter of application (Jan. 21, 1968). If you desire references, transcripts, or other supporting documents, please let us know.

In any event, please inform us so that we might be able to make plans for September, 1968.

Sincerely,



J.D. Andrade

Dear Mr. Andrade:

I was much interested in your candidacy however things have changed rather radically here and we will be hiring no one this coming year. Thanks for your interest
Richard S. Roper

2250 South Ogden S
Denver, Colorado
August 9, 1968

Richard S. Roper, President
Colorado Alpine College
Steamboat Springs, Colorado
80477

Dear President Roper:

I had been communicating with you regarding the possibility of a teaching position for my wife and me. You informed us in May that no positions would be available for the coming year.

Now we are looking for a position for 1969-70, as I had some thesis delays and expect to graduate in March 1969 or even possibly in June. My wife did complete work and graduated with a Master's degree in TEFL in

We are still very interested in Colorado Alpine. Please let us know how things look for summer or fall, 1969

Thank you for your kind attention.

Sincerely,
Joe Andrade
Joe Andrade

June 5, 1968

Dr. Lawrence S. Higgins
Technology Incorporated
8531 North New Braunfels Ave.
San Antonio, Texas 78217

Dear Dr. Higgins:

Thank you for your prompt reply to my phone call. I do not have a prepared resume, but what is not mentioned in the application form will be covered in this letter.

I took a B.S. degree in materials science from San Jose (Calif.) State College in June, 1965. The coursework at San Jose included courses on the mechanical behavior of materials. In September, 1965 I began graduate work in metallurgy and materials science at the Univ. of Denver on an NSF Training Grant. The M.S. degree requirement was waived for me, and I am now a Ph.D. candidate. Shortly after arriving in Denver I became interested in biomaterials and found a sympathetic faculty advisor (Dr. Jerry D. Plunkett, now a consulting ceramist in Denver), though neither of us knew anything about biomaterials. After intensively surveying the medical literature for about six months, and becoming thoroughly familiar with Medlars and Index Medicus, my interest focused on the problems of the blood--foreign surface interface. About this time Dr. Plunkett left and Dr. Predecki arrived; I managed to convince Dr. Predecki to be my thesis advisor and wrote a proposal with him as principal investigator which was funded for one year. The project ends this summer; we did not request continuance as I do not plan to be here after September.

My research experience is on the modification of polymer surfaces in the hopes of producing surfaces with clot-retarding activity. This work required a knowledge of organic and biochemistry, primarily protein chemistry. My current work (and thesis topic) is attempting to correlate protein adsorption on polymer surfaces to their crystallinity and surface energy.

As you see, my experience has dealt primarily with the chemical aspects of materials. My experience in mechanical properties and mechanical behavior is rather limited, though I have had the academic background in the area required of most materials scientists.

Your work sounds fascinating and is rather intriguing. I still am not sure exactly what you have in mind, however. All I can say is that I have been rather successful in the past in deducing methods and techniques to attack problems which many people claimed were insolvable. My present work involves

incorporating techniques in histochemistry (fluorescent anti-body methods) with the more familiar methods of polymer microscopy and metallography. I am confident I could successfully attack your problem, though it would take a little time to assimilate the literature and obtain some experience.

Copies of my two only publications are attached; both are short abstracts. I expect to write-up that work and my current studies during the summer.

I am a member of the American Chemical Society, American Society for Artificial Internal Organs, Sigma Xi, American Society for Metals, and the American Institute of Metallurgical Engineers. I am a past member of the American Society for Testing and Materials (ASTM), which is probably the one most valuable for the work you have in mind.

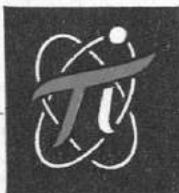
As I do not have an M.S. and the Ph.D. is not quite completed, I would be willing to accept a salary equivalent to that of a good B.S. engineer with several years of applicable experience, until the Ph.D. is awarded.

Dr. Grimmings of our department has organized a Biomedical Materials Conference -- a one week school on biomaterials. Doctors Grimmings and Predecki will discuss the basic structure and properties of materials. A fine slate of physicians, surgeons, and biomaterials people will round out the program. Proceedings were contemplated at one time, but I don't know what the outcome was. I will find out for you.

Thank you for your kind attention.

Sincerely,

J.D. Andrade
J.D. Andrade



TECHNOLOGY INCORPORATED
LIFE SCIENCES DIVISION

8531 NORTH NEW BRAUNFELS AVENUE
SAN ANTONIO, TEXAS 78217

PHONE: 512/824-7373
TWX: 910/871-1150

3 June 1968

Mr. Joseph Andrade
2250 South Ogden
Denver, Colorado 80210

Dear Mr. Andrade:

Thank you for your telephone call concerning possible employment with the Life Sciences Division of Technology Incorporated.

An extensive materials testing program, funded by the National Institutes of Health, is now underway here. We are definitely in need of someone who can handle the mechanical testing of a physical model relating the response of materials simulating intracranial tissues to various acceleration-time histories. Since I know very little of the science of metallurgy, I am unprepared to say if your background is applicable but my intuition tells me that it could be, especially when we begin to synthesize our material properties into structures made of inanimate materials.

I am enclosing an application, together with a company brochure for your review. If you would like to enquire further concerning our work, I would appreciate receiving the completed application and a list of your publications.

I received a notice last week of a seminar being held by your university. Will proceedings be published? If so, I would appreciate knowing how I might purchase a copy.

Sincerely yours,

Lawrence S. Higgins, M.D.
Principal Biomedical Scientist

LSH:pb

ENCS: Application form
Company Brochure