



Anthony James DiMauro
626 Indian Head Ranch Rd
Borrego Springs, CA 92004
619-820-0427
Website: <http://tonydude.net>

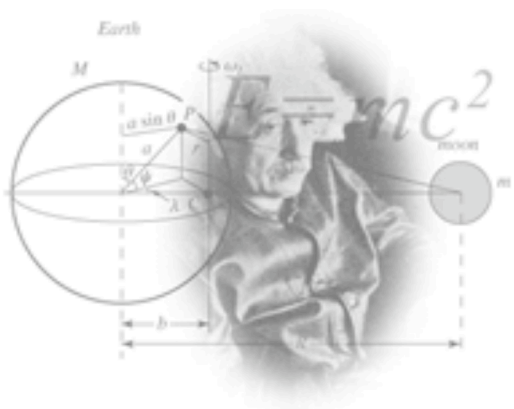
Cover Letter for Instructional Dean

Many of my students at Santana High School and at SDSU are from diverse backgrounds. I find it distressing to lecture only about white European scientists or Ancient Greek astronomers. My Hispanic and female students are anxiously waiting for someone to identify with in my lectures. I include many ethnic and female scientists when lecturing and have made links to many diverse scientists as well as scientific breakthroughs made across the globe. I encourage students to bring to the discussion achievements made by many diverse peoples. Science does not belong to one group as has been demonstrated throughout history. It is imperative that we shine light on all those who participate in the discovery of scientific phenomena.

Teaching high school was a wonderful and rewarding experience. My main goal was to turn students on to science; physics in particular. I developed excellent connections with SDSU and Grossmont College. Many of my students were encouraged to interact with the faculty at these institutions. I wanted very much for my students to pursue higher education. I create a motivating and supportive environment for students. Community college is a great place to begin one's pursuit into higher education or vocational training. The atmosphere is not as daunting and class sizes are generally much smaller. Teaching at SDSU to a class of over 100 students dilutes what I can do for my students. I have a very aggressive interactive teaching style. I want to know my students' names, where they came from, and where they plan to go. Student achievement is the most important consideration in teaching.

I earned my Masters Degree in Educational Technology to enhance my skills and further utilize computer-based instruction in the classroom. At Santana High, I developed a computer-based assessment for my students and the school administration. Students submitted paperwork, audio, and video into a user-friendly database (FileMaker Pro). I then transferred their work to a CD so they could keep their work organized and show their parents or prospective employers. I was also a member of the Digital High School Planning Committee. We were responsible for designing, developing and implementing a plan to upgrade the school's technology base. At SDSU, I have incorporated the internet into all my instruction. I have developed and maintained my own websites for each class. I am quite proficient with either Windows or Mac platforms. I have considerable experience with Dreamweaver, Fireworks and Flash. I have created many physics concepts Flash animations. All my labs and tools are on the web for any one to use.

I have a Bachelor's Degree in Physics as well as a Master's Degree in Radiation Physics. I have extensive teaching experience with high school AP Physics and College Prep Physics. Recently, I have taught Physics 180A/B, Physics 197, Physics 201, all Physics Labs and Natural Science 100 at SDSU. I have had experience in physics research with Dr. Papin in the Radiation Physics Program. I have also worked with Dr. Robert Nelson at SDSU who is doing research in cancer detection research. My work has been in data acquisition and analysis. I have worked extensively with Monte Carlo programs (MCNPX) and received a certificate from UNLV. Turning physics concepts into posters, websites and flash animations for all my students as well as many instructors is my expertise.



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Educational Experience

Master of Science Degree in Radiation Physics
Radiological Health Physics
San Diego State University
1999-2001

Master of Science Degree in Educational Technology
Computer Technology in Education
National University
1996-98

Single Subject Teaching Credential
Physics/Chemistry/Earth
National University
1992-93

Bachelor of Science in Applied Arts and Sciences
Physics/Math
San Diego State University
1988-92

Workshops, Activities, Presentations, or Seminars

Elementary Teacher Training (Presenter)	UCSD	1994
Stanford Linear Accelerator Program for Teachers	Stanford University	1994
Elementary Teacher Training (Presenter)	CSIN	1995-96
Golden State Exam Grader (Table Leader)	California State	1995-96
District Coordinated Science Committee	GUHSD	1993-97
Senior Project Training Program	Private Company	1995
Computer Training Workshop	GUHSD	1996
Presentation Software Instructor (Demonstrated FileMaker/PageMill)	GUHSD	1997
Resource Teacher Program (Develop School-to-Career Physics Modules)	GUHSD	1996-98
Recipient of Carl Perkins Grant (Developed and Implemented Physics and Technology Lab)	Santana High School	1997-98

Summer of Applied Geophysics Experience 2000	SDSU	2000
Developed and maintained Website for Health Physics Society (Summer School)	SDSU	2002
Wrote and submitted a National Science Foundation Grant	SDSU	2003
Developed and Implemented Web-based Instruction for Natural Science	SDSU	2003
Designed and developed Physics Concept Flash animations	SDSU	2003

Work Experience

San Diego State University *Physics Instructor*

Teaching Introductory Physics 180B, Physics 197,
Physics 201, Natural Science 100, Natural Science 412D, All Physics Labs.
2001 to Present

Santana High School

Physics Teacher

Grossmont Union High School District

Taught AP Physics, Physics, Chemistry, Physical Science and Earth Science. Developed and implemented Coordinated Science curriculum for the science department. Department Chair in 1996-97. Resource Teacher 1996-98. Received Carl Perkins grant to develop and implement skills-oriented curriculum in physics.

1993 to 2001

Tomorrows Maintenance

Small Business Owner-Contractor

SAIC, Hallmark Circuits, IBM, Telesoft, Tektronix

Owned and operated a custodial maintenance company that sought out and obtained contracts to many technology companies. Observed many aspects of circuit board development, design and production, optical lens fabrication, software development and design and implementation.

1981-94

Lee BioMolecular

Business Partner/Production

Produced Interferon for Research use.

Apprenticeship experience in Biological Lab skills and techniques.

1981-82

Industry Skills

Technical Writing/ Journalism-Publication/Research(Chemistry-Physics)/Curriculum Development

I owned a business for thirteen years before becoming a teacher. I started in the Golden Triangle, near La Jolla, CA. My contracts were with science-related companies such as: SAIC, Hallmark Circuits, Laser Power Optics, Telesoft, Tektronix, Lee BioMolecular, and IBM. My business was facilities maintenance. As owner, I was responsible for the hiring, training and supervision of as many as 12 employees. I had to maintain payroll, inventory, advertising, billing, and quality service for my customers, employees, and suppliers.

I had experience in technical writing in a company that was producing Interferon for research and preparing to go public. I participated in some very innovative research techniques in Biology, Chemistry and Physics. In addition, I wrote many contract proposals and completed a grant-writing class at National University.

I worked in the Journalism Department at the University of Nebraska. It provided relevant and practical experience with editing and paste-up of a very reputable magazine---before computers. I also edited and developed a Science Department Newsletter along with a Science Club Newsletter. I recently created a WebSite for our science department. This Website is student, teacher and parent friendly.

I assisted in the development of an curriculum and assessment matrix for Coordinated Science as a member of the District Coordinated Science Committee. I was a member of this committee for three years. We were responsible for developing a state-encouraged Coordinated Science Program through out our district. I helped write the content and performance standards as well as the curriculum. Our District is currently publishing a Coordinated Science Book that has sold in other districts. As a Resource Teacher, I created a *WebSite, Digital Portfolio and Physical Science Modules* for my district. I have also received a grant to establish a new skills-oriented Physics and Technology curriculum in my classroom.

References

Dr. Patrick Papin

Physics Department Chair

SDSU

619-594-6154

Dr. Fred Goldberg

Center for Research in Mathematics and Science Education

SDSU

619-594-6609

Greg Collamer

Principal

Hage Elementary School

858-566-0273

Dr Milton Torikachvili

Professor/Graduate Advisor

SDSU

619-594-6274

Dr. Phoebe Roeder

Liberal Studies Coordinator

SDSU

619-594-1847

Gordon Shackelford

Lecturer

SDSU

619-594-6157

University of Nebraska at Lincoln (1973-1975)
 University of Nebraska at Omaha (1977-1978)
 San Diego State University (1979-1992)

Class	#	Units	Grade	Points	Date	School
Chemistry	105	4	B+	14	F/73	UNL
<i>Entered U.S. Navy</i>						
Chemistry	115	3	B	9	F/77	UNO
Pre-Calculus	132	3	B	9	F/77	UNO
Physics (Mechanics)	111	3	B	9	F/77	UNO
Physics Lab	115	1	A	4	F/77	UNO
Astronomy	135	3	A	12	F/77	UNO
Trigonometry	133	3	B	9	S/78	UNO
Calculus	195	5	B	15	S/78	UNO
Physics (Thermal)	112	3	B	9	S/78	UNO
Physics Lab	116	1	B	3	S/78	UNO
Calculus	196	5	B	15	S/78	UNO
Chemistry	116	2	B	6	F/78	UNO
Calculus	197	4	B	12	F/78	UNO
Astrophysics	435	3	B	9	F/78	UNO
Math (Engrs I)	235	3	B	9	F/78	UNO
Astronomy	109	1	A	4	F/79	SDSU
Applied Math	340B	3	B	9	F/79	SDSU

Business Opportunity

1980-1994

Plasma Physics	151	2	C	6	S/88	UCSD
Physics (Modern)	197	3	B	9	Su/88	SDSU
Classical Mechanics	350A	3	C	6	F/88	SDSU
Math (Linear Alg. D.E.)	253	3	C-	6	F/88	SDSU
Physics (Quantum-Atomic)	354A	3	C	6	S/89	SDSU
Physics (Electromagnetism)	400A	3	C	6	S/89	SDSU
Physics (Electronics)	311	3	C	6	F/89	SDSU
Physics (Electronics)	313	3	C	6	S/90	SDSU
Biology	100	3	B	9	S/90	SDSU
Physics (Quantum-Atomic)	354B	3	C	9	S/90	SDSU
Chemistry	200	5	A	20	F/90	SDSU
Physics (Optics)	406	3	B-	8.1	F/90	SDSU
Physics (Nuclear)	564	3	B+	9.9	S/91	SDSU
Physics (Electromagnetism)	400B	3	B+	9.9	S/91	SDSU
Cosmology	301	3	A	12	S/91	SDSU
Chemistry (Mesa College)	201	5	A	20	S/91	SDSU
Physics (Quantum)	510	3	B	9	F/91	SDSU
Physics (Solid State)	532	3	C	6	F/91	SDSU
Physics (Senior Project)	498A	1	Cr	---	F/91	SDSU
Physics (Relativity)	570	3	A	12	F/91	SDSU
Physics (Laboratory)	357	3	C-	6	S/92	SDSU
Physics (Thermodynamics)	460	3	C	6	S/92	SDSU
Physics (Senior Project)	498B	2	A	12	S/92	SDSU
Applied Math (Complex)	532	3	C-	6	S/92	SDSU

Received B.S. Physics

May-92 SDSU

Total Units	122	Total Points	363	GPA	2.97
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Radiological Health Physics (Master's Degree)

San Diego State University (1999-2001)

Class	#	Units	Grade	Points	Date	School
Radiological Health Physics	660	3	A-	11.1	S/99	SDSU
Nuclear Instrumentation (Knoll)	561	3	A-	11.1	S/99	SDSU
Medical Health Physics	670	2	A	8	F/99	SDSU
Radiation Biology	Bio 561	3	A	12	F/99	SDSU
Adv. Nuclear Instrumentation	661	3	A-	11.1	F/99	SDSU
Biostatistics	40049	3	A	12	Su/99	UCSD
Geophysical Field Methods	Geo 307	4	A	14.8	S/00	SDSU
Brachytherapy Research	797	3	Credit	-	S/00	SDSU
Radiation Therapy (Khan)	600	3	A	12	S/00	SDSU
Radiation Trans. & Shielding	600	3	A	12	S/00	SDSU
Radiation Therapy (Internship)	798	1	Credit	-	S/00	SDSU
Summer of Applied Geophysical Exp.	-	-	-	-	Su/00	Los Alamos
Radiological Physics (Attix)	560	3	A-	11.1	F/00	SDSU
California GeoPhysics	Geo 630	3	Credit	-	F/00	SDSU
Digital Signal Processing	516	3	B-	8.1	F/00	SDSU
Anatomy and Physiology	Bio 341	3	A-	11.1	S/01	SDSU
Medical Physics Article Submission	797	3	Credit	-	S/01	SDSU

Totals

Units Attempted	46	Total Points	134	GPA	3.73
Units Earned	36				

Educational Technology (Master's Degree)

National University (1996-97)

Class	#	Units	Grade	Points	Date	School
Research Methods	IL 683	5	A	20	F/96	NU
Technology-Supported Global Learning	EDT 610	5	A	20	S/96	NU
Desktop Publishing	EDT 661	5	A	20	S/96	NU
Multimedia and Internet Technology	EDT 660	5	A	20	S/96	NU
Network System Design	EDT 640	5	A	20	Su/96	NU
Presentation Technologies	EDT 650	5	A	20	Su/96	NU
Trends in Educational Technology	EDT 655	5	A	20	F/96	NU
Application Project I	EDT 680A	5	A	20	F/96	NU
Application Project II	EDT 680B	5	A	20	F/96	NU
Grants, Contracts, and Fund Requests	IL 981	5	A	20	S/97	NU
Health Education across the Curriculum	ED 502	5	A	20	S/97	NU
Computer-based Technology	ED 670A	5	A	20	S/97	NU

Totals

Units Attempted	60	Total Points	240	GPA	4.00
Units Earned	60				

Received M.S. Educational Technology

"With Distinction"

History

Received Bachelor's Degree in Physics	1989-1992	San Diego State University
Received Single Subject Teaching Credential	1992-1993	National University (San Diego)
High School Physics Teacher	1993-2001	Grossmont High School District
Received Master's Degree in Educational Technology	1996-1997	National University (San Diego)
Received Master's Degree in Radiological Physics	1999-2001	San Diego State University

A much better summary of my Educational Experience