

AAPG-SDSU Student Chapter Annual Report 2009-2010



“Creating Bright Minds for the Future”

Annual Report: 2009- 2010

AAPG Student Chapter at SDSU
Department of Geological Sciences
San Diego State University, 5500 Campanile Dr.
San Diego, California 92182



To: Mike Mlynek, Student Affairs Coordinator

From: Bryant Fulk, President, & Rob Mellors, Faculty Sponsor, San Diego State University AAPG Student Chapter

Subject: AAPG Student Chapter at SDSU 2009-2010 Annual Report

Website: <http://www-rohan.sdsu.edu/~aapg>

President's Statement

Leading an active student chapter of a prestigious international institution, such as the American Association of Petroleum Geologists (AAPG), at San Diego State University this year has been a humbling and rewarding experience. The chapter has several events that are becoming annual traditions including tailgating at the football season opener, the Alumni BBQ at Kip Hering's Ranch, industry field trips and hosting speakers. In addition to continuing some of the social events initiated by my predecessors I wanted to pose a new challenge to the chapter this year in the hopes of inspiring more participation and activity in the community. The AAPG provides student chapters everywhere with ample resources to hold events and pursue careers in the industry. In return the AAPG garners interest from talented young scientists, but it is my belief we should expand our efforts to create a future generation of *Leadership* in the industry. This year I presented the following question to the SDSU AAPG chapter, "As we begin a new decade, posing both critical challenges and new opportunities, how might our chapter lead the way in contributing to a more efficient and productive energy industry?"

The officers of the chapter thought we might best serve the AAPG by creating positive exposure on behalf of the petroleum industry through different volunteer efforts. We decided we should focus on *Leadership through Service*, and create student members who are eager to participate in the communities they move on to after their time at San Diego State University. The chapter responded with several new programs. There was incredible participation in the First Bi-Annual SDSU AAPG Beach Cleanup Day. Both undergraduate and graduate students participated and then we hosted a social event afterward.

The AAPG has emphasized geosciences education in its agenda since its inception. However, in many states high school students are unaware of the applications of geosciences in the energy industry. In order to raise awareness of the opportunities available at the undergraduate and graduate level I gave a lecture to the A.P. Calculus sections at nearby St. Augustine High School. Instructor Greg Ranney (SDSU Alumnus) was giving of his time and allowed me to speak to both sections for the entire period. During which time, I outlined the industry from upstream to downstream, defined the petroleum system, and the different disciplines required to search for hydrocarbons.

Additional chapter members are looking into repeating the lecture at other local high schools.

I was also invited to discuss this new direction of the chapter along with other topics (Shale Gas Resources) at an SDSU football game. Dr. Mark Hubka (SDSU School of Business Management), VP of Clinical research at Histogen Inc. a biotech firm in San Diego, had very positive feedback saying that, regardless of industry, leadership is defined by a willingness to serve and a drive to succeed. It was encouraging that some of the school's administration was willing to share their time with the student chapter.

The SDSU-AAPG Chapter also hosted a Q & A session with Princeton Emeritus Professor Kenneth Deffeyes after his lecture on Peak Oil. While his predictions were stochastic in nature and he had not taken into account technological innovation, we still had a rousing discussion about the alarming consequences of declining oil production later this century.

One of the chapter's constant objectives is to prepare its members pursuing a career in energy for the application process. This year we had approximately eight graduate students interested in pursuing a career and we all had several interviews. Six members attended the AAPG Student Job Expo in Houston. We enjoyed the experience along with the opportunity to introduce ourselves to corporate recruiters. Even in a down market this year several students have offers standing for employment and internships from companies such as Chevron, Oxy, Schlumberger, and Chesapeake Energy. The chapter's continued success in finding internships and employment upon graduation is vital to maintaining undergraduate interest on campus.

The chapter's Imperial Barrel Award team, PetroAzteca, won the Pacific Section championship for the third year in a row. They analyzed the commercial potential of a lease block in the Danish North Sea. PetroAzteca received positive feedback from Aera, Oxy, and Chevron managers after their thirty minute presentation in Bakersfield, Ca. They will compete in New Orleans, Louisiana at the international finals. The Imperial Barrel program has fostered a tremendous amount of interest from the major energy companies. So far, every participant from last year's team has an offer for employment after graduate school, and the team captain from this year's team procured a summer internship at Chevron.

In the spring semester the chapter hosted three seminar speakers and two field trips. The chapter is first and foremost a geological society and we were fortunate enough to host several purely geological seminars that have applications in the energy industry in the spring. We hosted Dr. Anthony Pak who showed evidence that analysis of mineral deposits may lead to modeling of fluid flow processes. Additionally, our faculty advisor Dr. Rob Mellors, hosted a seminar about the geophysical work he did in the Caspian region. He also reviewed the significance of the oldest oil fields in the world in the Caspian Region as well as sharing the cultural experiences he enjoyed in Azerbaijan and Georgia.

The event with the highest attendance of the year was the Torrey Pines field trip with Emeritus Professor Pat Abbott. He has led field trips for petroleum geologists from over 60 countries at Torrey Pines State Park. The cliffs are considered a world-class example of turbidite depositional processes and have been the subject of several reservoir characterization studies. The SDSU Geology Alumni Association hosted a lunch after the trip. Additionally, Andy Aulia made the first chapter video, which is posted online.

The chapter is also hosting an Exxon Mobil speaker. The chapter liaison at Exxon Mobil said he would like to become more involved with the chapter and this presentation on 4D seismic applications should be an excellent first step outside of our yearly recruitment seminars. Also, our AAPG liaison, Jon Keuspert was kind enough to give us a tour of Breitburn Energy's drilling and production facilities at West Pico Ave in Los Angeles. Also, the students who made the trip were most excited to see the 3D visualization capabilities of their downtown LA offices.

Due to the funds provided by AAPG and the funds earned by PetroAzteca the chapter has a surplus of funds this year. It decided the best use of these funds is to provide another seismic workstation in the department computer lab. Currently, there are only two sufficient work stations in the lab. The addition of a third would mitigate time conflicts greatly.

In the future I would suggest continuing our social traditions as they generate interest and foster a communal spirit. Additionally, I would suggest continuing some of the programs implemented this year such as speaking at local high schools, beach cleanups, and charity fundraising. While our fundraiser was not greatly successful this year, with more foresight, perhaps a committee designated to run it, I think this would be a great way to give back. The cause was an excellent choice as it is underfunded and involves educating children about natural hazards. As always the chapter's main focus should be preparing its members for successful careers. Hosting speakers and field trips exposes student members to industry experiences and opportunities. Student members who proactively participate in these experiences continue to be successful in procuring industry employment.

The chapter is grateful for another successful year and the support of the AAPG. We would like to especially thank the organization for a grant used towards much needed petroleum geology books and their support of undergraduate studies through the Austin Weeks Grant. This year the chapter awarded the grant to Chris Binter, who will begin graduate work in the fall and has shown promise in and interest in petroleum geology. The SDSU AAPG chapter hopes to continue a tradition of "Creating Bright Minds for the Future" at San Diego State University in the future.

We would like to acknowledge: Dr. Rob Mellors (Faculty Advisor), Jon Keuspert (AAPG liason), Mike Mlyneck, Kip Hering, Pat Abbott, Dr. Gary Girty, Dr. Anthony Park, Doug Miller, Mike Helgerud, Ken Deffeyes, Greg Ranney, Dr. Mark Hubka, the SurfRider Foundation, and the AAPG amongst others who contributed to a productive year.

Sincerely,

Bryant Fulk,

President, 2009-2010 SDSU-AAPG Student Chapter

Spring 2010 Events

April, 2010

April 30, 2010- 2nd SDSU AAPG Mission Beach-Pacific Beach Clean-up

Student members will participate in a Beach Cleanup event of one of San Diego's most heavily trafficked beaches.

April 23, 2010- AAPG hosts Exxon Mobil Geoscientist Mike Helgerud

Mike Helgerud presents to the department on applications of 4D seismic interpretation and modeling. The presentation was arranged through Doug Miller at Exxon Mobil.

April 17, 2010- Biannual Alumni BBQ at Kip Hering's Ranch

The chapter again enjoys horse riding, Tri-tip, and stories about drilling in exotic places with department alumni Kip Hering

April 10, 2010- AAPG Conference in New Orleans, La.

PetroAzteca attempts to place at IBA international finals. Bryant Fulk attends meeting to accept appointment to AAPG Research Committee.

April, 7, 2010- AAPG Chapter Meeting

Chapter finalizes dates for Kip Hering's BBQ and Exxon Mobil speaker Mike Helgerud. Also approved year end gift to the department of a new seismic/visualization work station on behalf of the AAPG chapter's PetroAzteca. Additionally, the fundraising effort for Earthquake Safety Awareness was very successful we discussed how we might improve its efficacy next year.

March, 2010

March 27, 2010- Marck Maroun hosts Chapter BBQ

PetroAzteca member hosts department BBQ at his house to celebrate their Pacific Section Championship

March, 26, 2010- PetroAzteca wins Pacific Section IBA Championship

PetroAzteca wins third straight IBA Pacific Section Championship. They presented to executives from Aera Energy, Breitburn Energy, Occidental, and Chevron in Bakersfield, Ca. The team will advance to the international finals in New Orleans, La.

March 19, 2010- AAPG field trip to Breitburn Energy in Los Angeles, Ca.

Eight students were hosted by Jon Keuspert at Breitburn's West Pico Ave. facility. The facility is an excellent example of responsible exploration at an urban drill site. Additionally, we were allowed to visit their downtown corporate office and see 3D visualization of the geology at West Pico along with a new prospect in Florida.

March 5, 2010- Five student members participate in San Diego State's 3rd Annual Student Research Symposium

Four students presented posters on their thesis and one graduate student participated in the oral presentations. The experience was rewarding and allowed the students that participated to present on the initial results of their thesis work.

February 2010

February 20, 2010- Student Member Joseph Diaz hosts Chapter BBQ

The chapter quickly decided the squid fishing trip to be a success following the bounty of squid at Joseph Diaz' BBQ. Joe, famous in the chapter for his expertise on whale paleontology, angled two squid two days prior and commented, "I am physically unable to eat anymore squid, therefore everyone needs to come eat it."

February 20, 2010- AAPG hosts Dr. Pat Abbott's Torrey Pines Field Trip

Cretaceous Turbidite expert and Emeritus Professor Pat Abbott leads a group of twenty five students, faculty, and alumni on a morning hike along the cliffs of Torrey Pines state park, north of La Jolla. In channel depositional processes of turbidites was the focus of the field trip. Despite some light rain it turned out to be a great day for learning about the geology of these picturesque cliffs. AAPG chapter provided coffee and snacks beforehand.

February 18, 2010- AAPG Squid Fishing Trip

Following a record week in squid fishing off the coast of San Diego, California, ten student members boarded a chartered fishing boat in the evening for 4 hours. The chapter enjoyed an excellent trip but was disappointed when only two members caught three squid.

February 10, 2010- Dr. Anthony Park hosted by Rob Mellors and AAPG

Dr. Park presented his work on Patterned Mineral Deposits. These deposits allow modeling of chemical processes that occur during fluid flow and Dr. Park provided examples from Mars and Earth.

February 3, 2010- Dr. Mellors' Seminar on his latest experience in Azerbaijan

AAPG provided snacks and drinks at Dr. Rob Mellors seminar, which highlighted his latest trip to the Caspian region and his work with geophysicists both there and in Georgia.

February 3, 2010- AAPG Chapter Meeting

Officers informed the chapter about schedule for the semester. A fundraising effort was suggested and we discussed how to best implement it within the department. We decided to support Earthquake Safety Awareness in underprivileged parts of India. Additionally, a fishing trip was suggested and organized by John Abeid. We also proudly announced the members of our 2010 Imperial Barrel Award team- PetroAzteca. Chris Binter was also awarded the AAPG Austin Weeks Grant

January 2010

January 23, 2010- Officer's Meeting

Officers discussed budget for the semester, potential speakers, year end gifts to the department and field trips. It was decided to continue the semiannual BBQ at Kip Hering's ranch. We also contacted Breitburn Energy and Exxon Mobil about future events.

Fall 2009 Events

December 2009

December 18, 2009- Undergraduates participate in Beach Cleanup

AAPG undergraduate members who did not participate in SDSU AAPG beach cleanup still showed initiative by participating in the Surfrider Foundation beach cleanup at Moonlight Beach, Encinitas, Ca. An event highlighting clean beaches and some of the world's elite surfers.

December 17, 2009- End of Semester wrap-up

Off Campus holiday party to discuss the semester and prospects for having an even more productive Spring.

December 16, 2009- First SDSU AAPG Mission Beach-Pacific Beach Clean-up.

Ten graduate and undergraduate members volunteered an afternoon picking up trash at a local beach in order to promote clean beaches and promote an environmentally-conscious image of both San Diego State University and the AAPG.

December 9, 2009- AAPG Chapter Meeting

Finalizing plans for beach cleanup and continuing to plan for next semester's agenda

December 5, 2009- Hosted Lunch with Colorado School of Mines MSc

President Bryant Fulk hosted School of Mines MSc from the Chevron sponsored Research Center while in San Diego for field work. Focus of lunch was to discuss the research (non-channelized turbidite sands) and to get other AAPG member feedback on the chapter's new focus of "Preparing to Lead a New Generation of Energy Work Force: Encouraging Service-Based Leadership".

November 2009

November 21, 2009- Chapter BBQ at Alumni Kip Hering's Ranch

Chapter's Bi-annual BBQ at Kip Hering's Ranch. The chapter enjoyed discussing job prospects with Kip as well as the horse riding and Tri-tip.

November 12, 2009- Chapter President Bryant Fulk speaks to High School AP Calculus Class

Chapter President spoke to both AP Calculus classes at St. Augustine High School (instructor: Greg Ranney) on the applications of geosciences in the energy industry and why mathematically and computationally advanced students should consider a future in the discipline.

November 5, 2009- Chapter President Bryant Fulk and last year's President Andy Aulia aid 7th grade student in Greater San Diego Science Fair Project

Consulted with local 7th grade student on her project "Effects of earthquake source ground motions on different mediums." Providing her with advice on how to efficiently write a technical paper and background literature to better understand the dynamic system she was attempting to define.

November 4, 2009- Kenneth S. Deffeyes "Peak Oil and the Great Recession", AAPG sponsored Question and Answer

Emeritus Professor of Geology Ken Deffeyes spoke to the department and the SDSU community regarding Peak Oil and its implications. More than half of the chapter attended the talk and then the AAPG student chapter hosted a Q and A with drinks and snacks afterwards, which turned into a vigorous discussion lasting more than 2 hours.

October 2009

October 28, 2009- Chapter Meeting

Discussed potential speakers from the AAPG and nearby energy companies and allocated funds for future events. Also discussed the 2009 job market and prospects for jobs in different disciplines within the energy industry for 2010.

October 3, 2009- New Mexico State vs. SDSU football game, President of SDSU AAPG chapter invited to Dean's Box

Chapter President Bryant Fulk is invited to Dean of Business School's Box at football game to discuss amongst other things: the chapter's new focus on leadership through service and its implications in preparing future industry professionals and the long term effects of shale gas plays on our domestic energy portfolio.

October 1-3, 2009- AAPG Pacific Division Student Job Expo (CSU Northridge)

Approximately eight graduate members and six undergraduate members attended this expo with all of the graduate members participating in interviews.

September 2009

September 21-22, 2009- AAPG/SEPM Student Job Expo (Houston, Tx.)

Five chapter members attended the student expo in Houston, Texas participating in corporate interviews with the intention of representing San Diego State University and ourselves to the best of our abilities. Three members attended the short course; offshore geology of Galveston, Texas and one member attended the Schlumberger and Shell short courses.

September 12, 2009- SDSU vs. Southern Utah football game, AAPG tailgate

Chapter tailgated in support of the University and the football team's home opener.

September 8, 2009- First Chapter Meeting

Presented the fall agenda to the chapter along with our new focus on leadership through service and received feedback on different directions for this new opportunity. Discussed potential speakers

September 5, 2009- SDSU vs. UCLA football game, AAPG tailgate at the Rose Bowl
Chapter tailgated in support of the University and the football team's season opening game

August 2009

August 31, 2009- First Officer's Meeting

The first officer's meeting of the year was to discuss the chapter's 2009-2010 objectives and goals. As in past years, the chapter wanted to focus on encouraging geosciences and their applications in the energy industry through several industry-related speakers and off-campus field trips. Additionally, the chapter wanted to set a new goal by emphasizing leadership through service and taking the initiative to give back to our communities via several philanthropic endeavors.

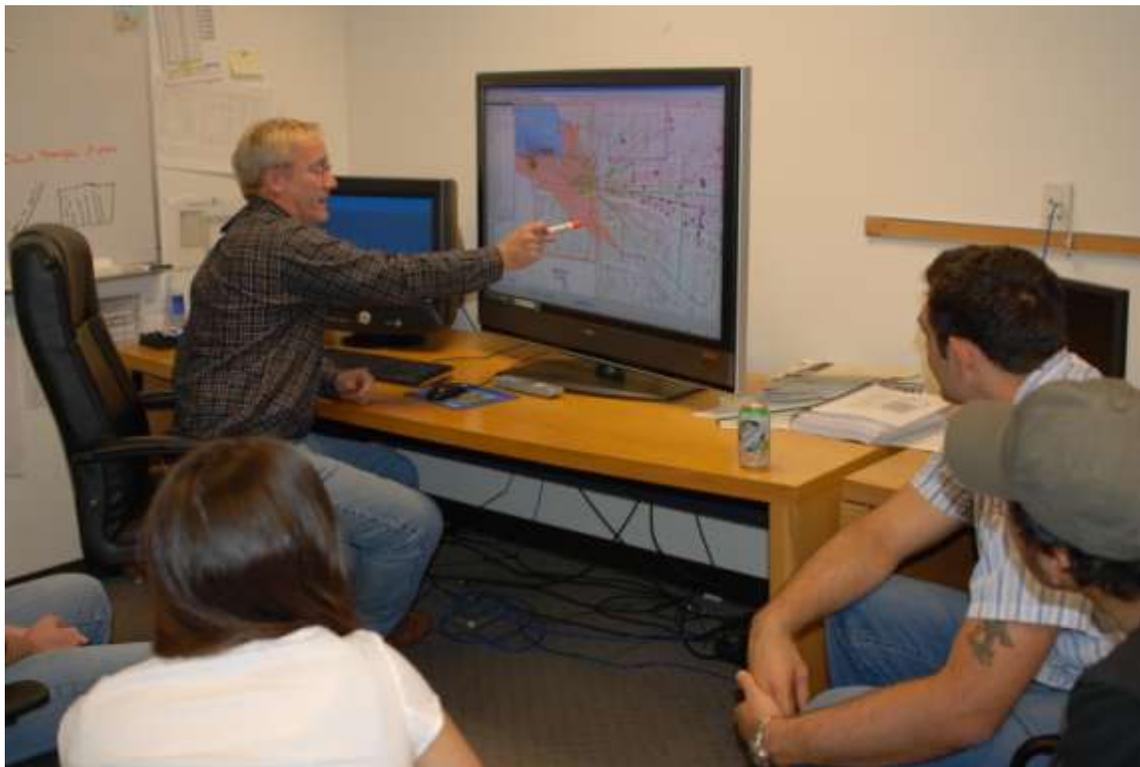
August 28-30, 2009- AAPG Annual Leadership Conference

2008-2009 Chapter President Andy Aulia attends Annual Leadership Conference in Tulsa, Oklahoma (Student Chapter Leadership Symposium). Meeting with other student chapter leaders and AAPG leadership in the goals of generating new ideas and possible ways to expand AAPG student chapters. Andy, in conjunction with student chapter from Aberdeen University, are creating a web board for student AAPG members as a result of this conference.

PICTURES

Breitbart Energy Field Trip







Imperial Barrel Award Pacific Section 2010





Chapter Squid Fishing Trip





Torrey Pines Field Trip with Dr. Pat Abbott









First Bi-annual SDSU-AAPG Beach Cleanup, Mission Beach





Princeton Professor Ken Deffeyes' answering a question after his talk



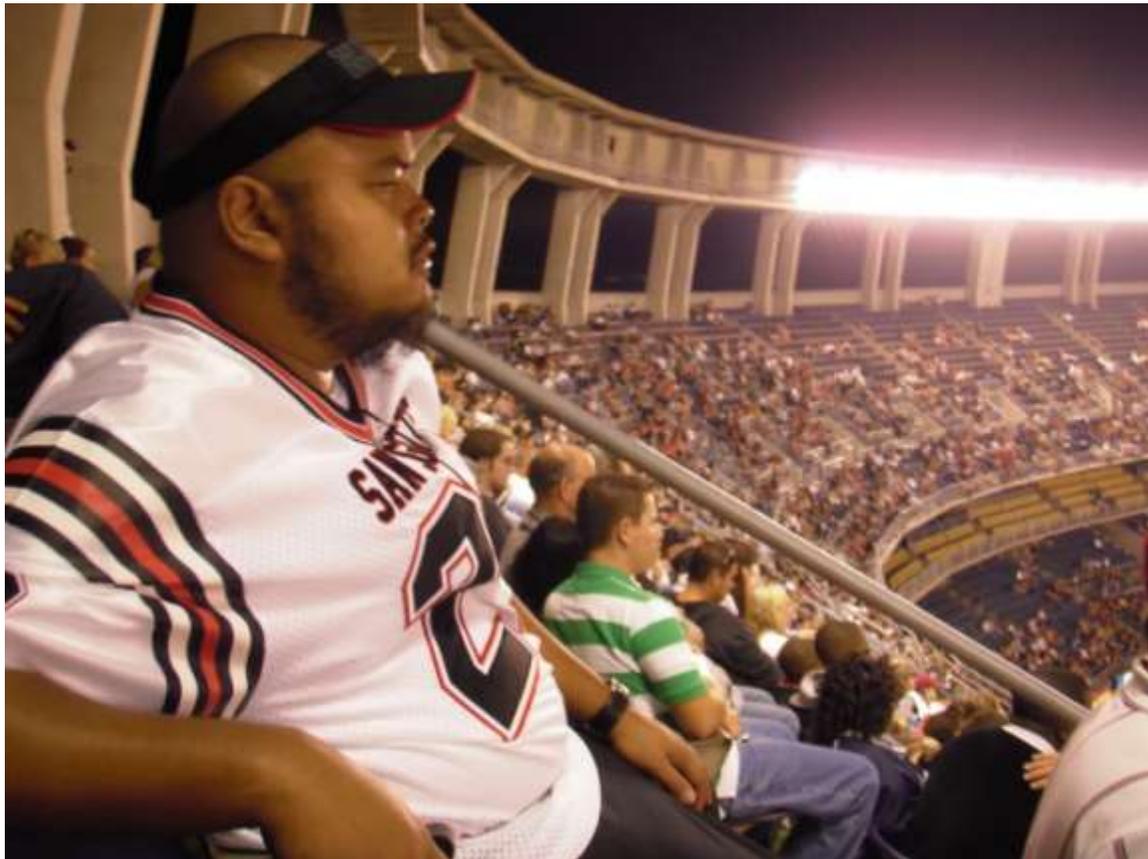
SDSU AAPG members and alumna at short course in Houston, Texas





Home Opener SDSU Football Tailgate





SDSU AAPG Alumni BBQ at Hering Ranch

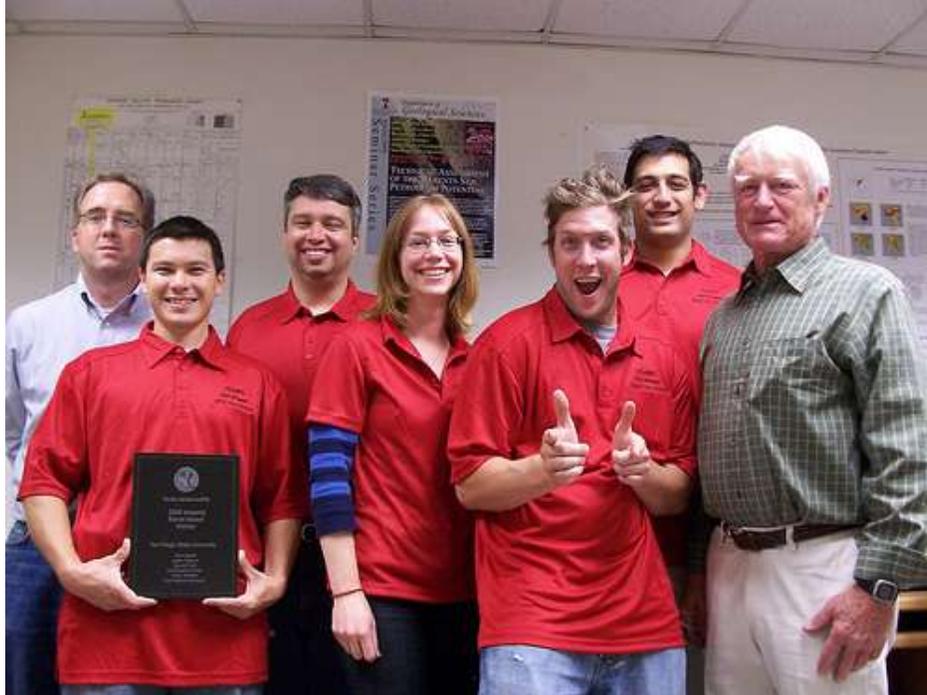




.Former President Andy Aulia at Student Leadership Conference in Tulsa, Ok.



2009 PetroAzteca Team Accepts Pacific Section Award



2008-2009 AAPG-SDSU

Faculty Sponsor: Dr. Robert J. Mellors
Affiliated Society: AAPG Pacific Section
Affiliated Society Liaison: Jon Kuespert

Officers:

President: Bryant Fulk
Vice-President: Chris Binter
Secretary: Karl Bloor
Events Coordinator: Krista Muela
Treasurer: Leslie Clayton

Committee:

<p>Recruiting/Field Trips: Alena Buhler Jon Sainsbury</p>	<p>Media-Communications: Karl Bloor Brian Pierce</p>
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Members:

Name	AAPG #		Name	AAPG #
Abeid, John	10022104			
Aulia, Arifandy	10028115		Takedatsu, Rumi	Pending
Bloor, Karl	10048751		Binter, Chris	Pending
Buhler, Alena	10034343			
Carrasco, Taylor	10044389			
Girty, Gary	675958			
Gritz, Andrew	10044778			
Jimenez, Rosa	10034697			
Mellors, Robert	728781			
Pierce, Brian	10044881			
Binter, Chris	10040841			
Clayton, Leslie	10043800			
Cronquist, Dan	10044882			
Johnson, Briana	10031433			
Kohel, Chris	10046874			
Muela, Krista	10033504			
Johnson, Briana	10031433			
Annell, Eric	10029455			