



The APInion

New Exploration Strategy

Oil fields in the Gulf of Mexico are found at subsurface depths coinciding with significant changes in the solubility of oil in gas — suggesting that oil and gas phase separation is a pervasive step in petroleum migration. Additionally, changes in the solubility of methane in water coincide with the depth of gas reservoirs — suggesting that gas exsolving from water is also a process to consider in hydrocarbon migration. Hydrocarbon fields from both the deep water and the shelf are used to illustrate the two empirical relationships.

The solubility of oil in gas is calculated from Price's experimental data and plotted versus depth. Increasing temperature and pressure with depth increases the solubility of oil in gas and it eventually becomes asymptotic where the two become cosoluble. Vertically migrating hydrocarbons are most likely to phase separate at this depth. The importance of this depth of phase separation cannot be overstated as the largest fields are found proximally above this depth. Generally, as the magnitude of the change in solubility increases, the accumulation size also increases. Conversely, few commercial pays are found beneath the depth where oil and gas are cosoluble.

The solubility of methane in water is calculated using Haas' program and when plotted versus depth also reveals



that major gas reservoirs are commonly found at the same depth where vertically migrating water would experience an abrupt decrease in methane solubility. Results from onshore GoM wells confirm methane saturation at high temperature and pressure and these waters would exsolve gas if the water migrated vertically.

The solubility versus pay relationship is a refinement of the existing pressure versus pay relationship, and, this important new step in the hydrocarbon migration process fortunately can be modeled ahead of the bit thus leading to the development of a new exploration strategy.

Biographical data:

Glen Gatenby holds both a Bachelor and Masters of Science degree in Geology from LSU and has over twenty



API General Meeting

**Wednesday
August 21, 2002**

**Fairmont Hotel
Blue Room**

**Networking: 11:00
Meeting: 11:30**

**Phase Changes:
A Major Aspect
of Petroleum
Migration
Glen Gatenby**

*\$25 per person
\$20 API Members*

*RSVP: Michael del Papa • 561-4650
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or Dwight Paulsen 455-0858
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Space is limited*

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API — Delta Chapter*

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CHAIRMAN'S MESSAGE

Greeting to all

The Annual Teachers Appreciation Luncheon was a great success. Ro Brown, education reporter for WDSU-TV in New Orleans, gave a beautiful presentation in which he discussed his relationships with his first five teachers. Mr. Brown honored our guests and touched the hearts of everyone in attendance. Thank you, Ro, for sharing your experiences with us.

Let me tell you about some exciting upcoming events that your API Chapter has scheduled. I hope to see all of you there.

The API Technical Meeting will be held on August 21, 2002 at the Fairmont Hotel. Glen Gatenby will present *Phase Change: A Major Aspect of Petroleum Migration*. Mr. Gatenby's talk, based on a presentation that he gave at the GCSSEPM Foundation 21st Annual Research Conference last year, will address his novel model of hydrocarbon migration. The presentation will be of interest to all hydrocarbon explorers and will take place the same day that the Federal Gulf Lease Sale 184 is scheduled so we expect a nice turnout. Please reserve your seat early by contacting me at dcpaulsen@edg.com.

The API-Delta Annual Golf Tournament will be held on October 11, 2002 at Bayou Oaks Golf Course. This is our chapter's major fund raising event and we depend on your participation. Plan to join us and make your reservations to have a great time at this event. A flyer and additional information are included in this newsletter.

The Third Annual Greater New Orleans Joint Industry Association Luncheon will be held on November 14, 2002 at the Fairmont Hotel. The API-Delta Chapter is proud to announce that Red Cavaney, President and CEO of the American Petroleum Institute, headquartered in Washington DC, will be our featured speaker. Mr. Cavaney's presentation will focus on *The Challenge Ahead for Oil and Gas*. This is a meeting you do not want to miss. Reserve your seat now because space is limited. For tickets or other information contact me at dcpaulsen@edg.com.

I hope that you are as excited as I am about the events that your chapter has put together for you this year. Our web site (www.api-delta.org) continues to service our membership thanks to our sponsors, and to the efforts of board members Dan Bordelon and Ben Waring. If you have not visited the site recently, please do. I appreciate your comments and suggestions.

Lastly, on behalf of our chapter, it is my pleasure to welcome two new board members: Ms. Theresa Adams, executive director with the Harvey Canal Industrial Association, and Mr. William J. Gieseler, marketing manager with W.H. Linder & Associates.

Dwight Paulsen

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TAYLOR TALKS TOPS

Independent oilman and philanthropist Patrick Taylor, who received the API Meritorious Award in 1997, is known for his efforts in education reforms and for his “Taylor Plan.” Created in 1989, the Taylor Plan evolved into the TOPS program (Tuition Opportunities Program for Students), which has been adopted in twenty states including Louisiana. I met with Mr. Taylor to discuss the Louisiana TOPS program which is in danger of losing state funding. The following are excerpts from our conversation.

In the current academic year, forty-five percent of graduating high school seniors qualified for TOPS. To qualify, students must earn a score of twenty-one in the ACT exam, their GPA must be greater than 2.9, and they must have been enrolled in a college preparatory program that includes four years of English, three years of math, and three years of science. The program requires Louisiana residency and sets a minimum grade average that students must maintain throughout college.

In 2001, the TOPS program was funded with one hundred and five million dollars by Louisiana taxpayers. An average award consists of two thousand, six hundred dollars per year for four years for each participant. The program motivates students to achieve and not to be content with “only a social diploma that qualifies you to flip burgers,” Taylor said. The state also saves costs associated with teaching remedial college courses. “TOPS keeps kids engaged in school, out of trouble, and out of the state’s welfare and criminal system programs, further saving tax dollars. Our choice is simple: educate or support them,” he continued. “The mindset that students that are poor or black are not college material has been challenged by the success of the program. If you expect nothing from these kids, you will get nothing,” he continued.

I asked Taylor to grade the TOPS program. Taylor commented that in 1990 only two percent of Louisiana’s high school seniors qualified for the program. Current levels of participation were reached after a successful effort to increase the program awareness and after the removal of the income cap in 1997; the cap denied the opportunity to middle class kids. ACT scores have improved five to six points on the average. Taylor gave the kids, educators, and parents an A.

Taylor continued: “The state government gets an F because of the poor manner in which the program is run, and because of the red tape that discourages kids from participating.” Louisiana is the only state that requires submittal of the FAFSA (Free Application for Federal Student Aid) form every year. “The office that oversees the program has grown from twelve to one hundred and sixty eight people,” Taylor said, visibly outraged. “The program, though not based on income, requires the FAFSA form to encourage kids to make loans. To fill out the form every year, you need to hire a CPA,” Taylor said with sarcasm. He guessed that the requirement to fill out the FAFSA form (eight pages) has prevented the additional participation of over sixty thousand kids.

“The TOPS program was meant to invest taxpayers’ dollars in the education of deserving kids, not to encourage federal loans or pay the salaries of additional bureaucrats,” Taylor said calmly. “The goal should be to increase participation in TOPS. Our state will benefit from a well educated and highly trained work force.” The program was not established to “add bureaucracy,” he restated. TOPS can be “administered with the help of high school counselors and procedures already in place,” he indicated. It was evident that the FAFSA issue troubles Taylor immensely.

We discussed the current debate with funding TOPS. “I met with Governor Foster, and he promised me not to threaten the kids but to try to lever the legislature to insure continued funding. Foster told me that ‘TOPS is solid’ when I met him, but the next day his spokesman said that ‘TOPS is the last item on the chopping block.’” Mr. Taylor was upset at what he perceived is “breaking a promise” to kids who have been doing well, and who are counting on this promise to help fulfill their dreams. “Our kids cannot afford the high costs of a college education. We must undo the damage and restore the kids’ trust in our government,” Taylor told me. “Voting against funding TOPS is political suicide that Louisiana voters and I are willing to assist,” Taylor said firmly. “TOPS is a worthwhile program, and the bottom line is that it offers opportunity and benefits for all the people of the state.”

Mr. Taylor also talked about the shortage of engineers and scientists essential to our petroleum industry. “We should offer more internships to TOPS students in these disciplines.” He felt that our petroleum community is often too slow to act, and warned that we will continue to lose critical talent to other disciplines.

Taylor commented that funding pay increases for qualified teachers and inculcating respect for the teaching profession will help Louisiana to compete for talented educators and improve educational opportunities for its people.

I enjoyed meeting with Mr. Taylor. He thanked me for carrying this message to our membership. “I am a Texan who got a free education at LSU, and I am glad that the statute of limitation has already expired because I can no longer be charged out of state tuition,” he said jokingly as we shook hands and parted.

LETTERS

Dear Sir:

As a faithful reader of APInion, I would like to congratulate you for your outstanding newsletter. The newsletter is not only well organized but also well presentable and highly informative. You can rest assured that APInion provides a valuable contribution to this community.

The January issue brings us the news that the Cuba Policy Foundation, Washington, D.C., has concluded that lifting the U.S. trade embargo against Cuba could provide us energy firms with \$2 or 3 billion per year in new revenues.

Not only U.S. energy firms would benefit from lifting the 40 years old trade embargo but also the agricultural, pharmaceutical and tourism industries as well. Most importantly the Cuban people will be exposed to the values of democracy and freedom.

It is time to lift the trade embargo against Cuba. We cannot afford to be nearsighted any longer!

Walter Gonzalez

Fundraiser Golf Tournament

The Gas/Oil Political Action Committee is hosting a fundraiser golf tournament — the only fundraising tool for the organization — and this year's tournament (the 7th Annual) is scheduled for Monday, September 30, 2002, at Money Hill Golf and Country Club, in Abita Springs, Louisiana.

Contact Jan Pourciau Louisiana Mid-Continent Oil and Gas Association, 801 North Boulevard - Suite 201, Baton Rouge, Louisiana 70802, (225) 387-3205 • (225) 344-5502 fax • e-mail pourciau@lmoga.com • web lmoga.com

New Exploration Strategy *(continued from page 1)*

years experience of onshore and offshore exploration and development. Glen began his career with Unocal in Canada and transferred to Lafayette LA in 1981. In 1987 he was transferred to Houston as the District Development Geologist and in 1989 was named Regional Development Manager. From 1991 to 1996, Glen was an International Trend Manager for Central Asia and then spent two years in Exploration Planning. Glen began exploring

the Deepwater Gulf of Mexico in 1998 with Unocal and has been with Repsol YPF since 2000, where he continues working the DW Gulf of Mexico. Glen has published and presented papers dealing with hydrocarbon migration relative to phase separation at both AAPG and Research Conferences. He is a member of the AAPG and HGS.

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Brain Surgery ... "Teachers, continue your great work."

On April 17th, the API membership honored our outstanding public school educators of the year.

Cathy Vaughn, the API education committee chairwoman, welcomed our guests and talked about the chapter's education initiatives which include support for the Children's Museum, the annual Super Science Saturday at the Museum, and the yearly education awards. Our local API chapter is proud to have "contributed over one hundred thousand dollars in cash awards to the outstanding public school teachers in the six metropolitan parishes" Ms. Vaughn said. The teacher awards are funded by the API members through our October golf tournament.

Mr. Ro Brown, education reporter for WDSU-TV, addressed the guests and paid tribute to the teachers and their profession. Mr. Brown delighted our audience with memories of the exceptional teachers that made an impact on his life.

Beginning his speech, Ro Brown told us that he still keeps in touch with his school teachers; he often "has them over for dinner" or takes them to dinner. "Teachers do not realize how important they are to us" he said. "Often, we do not realize how much teachers mean to us."

Ro Brown is a product of New Orleans public schools. He grew up in the segregated system of the time and was fortunate to have had qualified, exceptionally gifted teachers who, in addition to the traditional skills, had to instill in him self confidence, self respect, and a desire to succeed. Mr. Brown remembered July 17th, 1965 when his class took a field trip to WDSU-TV studios. "I think I wish I could be a sportscaster" he recalled telling his teacher. "What do you mean you think you

want to be?" was the response. Twenty two years later, Mr. Brown walked into WDSU-TV as a sportscaster.

Parents are responsible for the basics, for our moral upbringings; teachers, similar to surgeons, work on our brains. Unlike surgeons who often "get to the brain when something is not right," teachers make sure that we have a good functioning brain to help us meet challenges; they provide us with the skills needed to excel in an increasingly competitive world. "Simply put, teachers have a major impact on our lives", Mr. Brown told the audience.

Mr. Brown discussed the importance of his African American teachers in the segregated school system in which he grew up. He spoke of his teachers with high regard and told us that he has a special place for them in his heart and in his memories. "They taught me dignity, compassion and humility, class and style, purpose and seriousness, and love of community." Mr. Brown briefly switched to sports for an analogy: "teachers are like offensive linemen" he told us. "Good ones are hard to find," and they are not noticed until they do something wrong." Brown also said that nothing good happens without good teachers, but often teachers do not understand their importance. "You do not get the glory all the time," he said.

Ro Brown encouraged the new teachers to "hang around for a while." He concluded with a tribute to our educators: "more people than you think know you are important. You are the real brain surgeons."

We all enjoyed Ro Brown's thoughtful and very appropriate presentation. The API members thank Mr. Ro Brown for helping us honor the outstanding educators of the metropolitan parishes.

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Bridgette Frick, Ro Brown, and Madeleine Neske



Ro Brown and Cathy Vaughn



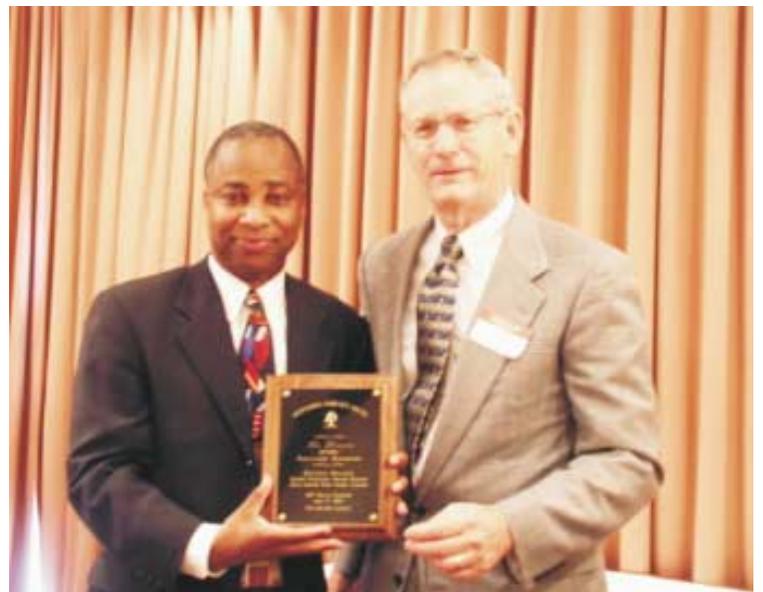
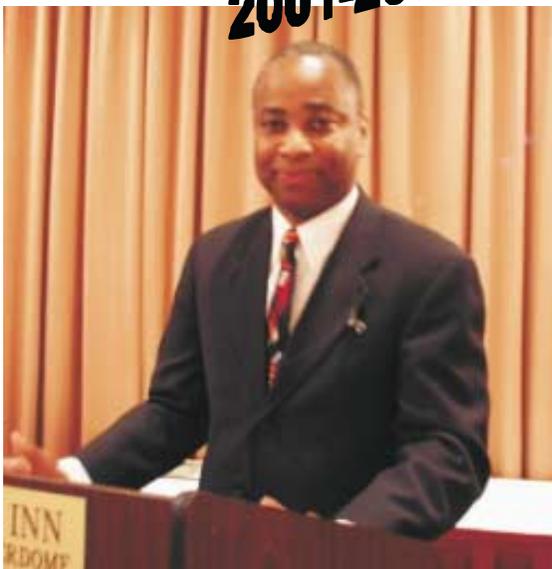
M del Papa, Col. A Davis,
R Brown, J Hoyle,
L Monteleone, D Paulsen



Col. Alphonse Davis

API-Delta Chapter 2001-2002 Teacher Excellence Awards

Keynote Speaker: Ro Brown





Jefferson Parish



St. Bernard Parish

I appreciate your dedication not only to education, but to teachers as well. *S Centanni*



Orleans Parish

Winning (the award) has brought recognition to my students and school. *M. Neske*



St. Tammany Parish

Educators have a profound influence on the lives of children. *E. Coco*



St. Charles Parish

The recognition has inspired me to reach for new limits. *C. Winkler*



Plaquemines Parish

— Judi Adams, Shell Oil Co.

AMERICAN PETROLEUM INSTITUTE — DELTA CHAPTER 2001-2002 TEACHER EXCELLENCE AWARDS

For the sixteenth consecutive year, the Delta Chapter has recognized outstanding teachers through the Teacher Excellence Award Program. The API-Delta Chapter Teacher Excellence Award is a coveted award. The Delta Chapter continues to enjoy a place of distinction at Public School System Board Meetings and Awards Nights, with our members being warmly received by the School Boards and Superintendents when the API-Delta Chapter Teacher Excellence Awards are presented.

The Delta Chapter of API is committed to public education and, to that end, has chosen to recognize the untiring efforts of public school teachers who continue to deliver quality services to students with minimal compensation and inadequate resources. To date, the Delta Chapter has awarded over \$107,000 to new and veteran teachers in the New Orleans metropolitan area. Following are the names of this year's award recipients and their school affiliations in the Delta Chapter six metropolitan area parishes. The names of the API-Delta Chapter members who presented the awards are also included.

Jefferson Parish:

Chairman's Award	Jo Ann Marie Adams Scott	Alice Birney Elementary School
Distinguished Teacher Award	Freddy Joseph Waguespack, Jr.	L.W. Higgins High School
Service in Teaching Award	Eric W. Stanton	Livaudais Jr. High School
Presented by:	Michael Del Papa and Carlos Guzman	

Orleans Parish:

Chairman's Award	Madeleine K. Neske	L.E. Rabouin Career Academy
Distinguished Teacher Award	Myra Ann Edgerson	Stuart R. Bradley Elementary School
Service in Teaching Award	Afreda Hygh	Eleanor McMain Secondary School
New Teacher Award	Geraldine Boesch	A.D. Crossman Elementary School
Presented by:	Dwight Paulsen	

Plaquemines Parish:

Chairman's Award	Keri N. Armstrong	Belle Chasse Middle School
Distinguished Teacher Award	Shelly M. Ritz	Belle Chasse Primary School
Service in Teaching Award	Barbara Fontenelle	Belle Chasse High School
New Teacher:	Stacey A. Lange	Boothville-Venice High School
Presented by:	Dwight Paulsen	

St. Bernard Parish:

Chairman's Award	Christine Caruso Elliers	Lacoste Elementary School
Distinguished Teacher Award	Pamela Frey Cassar	Chalmette Middle School
Service in Teaching Award	Brenda Pourciau Boleware	Chalmette High School
New Teacher:	Lisa Griffin	Arabi Preschool
Presented by:	Dwight Paulsen	

St. Charles:

Chairman's Award	Colleen Winkler	Hahnville High School
Distinguished Teacher Award	Stephanie Centanni	Norco K-3 Elementary School
Service in Teaching Award	Hettie Avertie	Lakewood Elementary School
	Matthew Spitz	J.B.Martin Middle School
Presented by:	Michael Del Papa	

St. Tammany:

Chairman's Award	Elizabeth Z. Coco	Elmer Lyon Elementary School
Distinguished Teacher Award	Emile J. Danna, Jr.	Lee Road Jr. High School
Service in Teaching Award	Mary Bryan P. Bowers	Slidell High School
New Teacher:	Kerri M. Spell	Fifth Ward Jr. High School
Presented by:	Dwight Paulsen	

Homeland Security Issues Addressed

API continues to address issues related to the proposed Department of Homeland Security, including critical infrastructure information sharing by energy industries and government. Last week, API signed a letter to the House Select Committee on Homeland Security urging Freedom of Information Act protection for voluntarily provided information. The House Select Committee is marking up the DHS legislation, with House floor debate expected before the August recess. In addition, the Senate Government Affairs Committee marks up DHS legislation this week. Contact: Genevieve Laffly Murphy, Federal Relations, 202-682-8410 or laffly@api.org.

API Issues Six-Month Statistics

At a 7/17 media briefing, API released its statistical report for the first half of 2002, reporting that imported crude oil and foreign refined petroleum products declined by an average of 8.5 percent, the largest half-year decline in more than 10 years. Ron Planting, API's manager, information and analysis, said that the decline resulted from increased production from deepwater Gulf of Mexico platforms, newly developed Alaska reserves, and exceptionally weak domestic demand. However, he said that imports still supply about 58 percent of the petroleum we use. Contact: Ron Planting, Policy Analysis and Statistics, 202-682-8509 or planting@api.org.

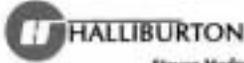
U. S.-Russia Oil & Gas Summit Set for October

Secretary of Commerce Don Evans is hosting a joint U.S.-Russia Oil and Gas Commercial Summit in Houston on 10/1-2. There will be opportunities for API members to participate. API will be providing support to the organizer, the United States Energy Association, to facilitate communication with API companies. Contact: Bill Frick, Vice President, 202-682-8240 or frick@api.org.

USEA Energy Report Released

On 7/19, API vice president and general counsel Bill Frick joined leaders of other energy groups at a United States Energy Association (USEA) press conference to release USEA's report, National Energy Security Post 9/11, which API helped develop in a collaborative effort with other energy associations. At the press conference, Frick said there is a new post-9/11 partnership between government and the energy industry committed to protecting critical infrastructure from terrorist attack. "But for that partnership to be successful," he said, "companies cannot be expected to risk sensitive information about themselves that could increase their vulnerability to terrorist attacks. We need new protections under the Freedom of Information Act to make sure that doesn't happen." Contacts: Bill Frick, Vice President, 202-682-8240 or frick@api.org or John Felmy, Policy Analysis and Statistics, 202-682-8530 or felmyj@api.org.

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DELTA CHAPTER

GOLF TOURNAMENT

FRIDAY, OCTOBER 11, 2002 - BAYOU OAKS GOLF COURSE

FORMAT - 4-MAN SCRAMBLE, BLIND BOGEY SCORING, LOW GROSS

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**NOTE: NO RESERVATIONS WILL BE MADE UNTIL PAYMENT IN FULL IS RECEIVED
SPACE LIMITED: ALL ENTRIES "FIRST-COME" - "FIRST-SERVED"**

MULLIGANS: Maximum 2 per Golfer - 1 Mulligan per each nine holes

4-MAN TEAM

NAME	\$100.00	NAME	\$100.00
COMPANY		COMPANY	
ADDRESS		ADDRESS	
CITY	ST ZIP	CITY	ST ZIP
PHONE	FAX	PHONE	FAX
No. MULLIGANS @	\$5.00 (max. 2) \$	No. MULLIGANS @	\$5.00 (max. 2) \$
NAME	\$100.00	NAME	\$100.00
COMPANY		COMPANY	
ADDRESS		ADDRESS	
CITY	ST ZIP	CITY	ST ZIP
PHONE	FAX	PHONE	FAX
No. MULLIGANS @	\$5.00 (max. 2) \$	No. MULLIGANS @	\$5.00 (max. 2) \$

Tee Time Preference: ___ 7:00 a.m. ___ 1:00 p.m.

You will be notified if your preferred time cannot be accomodated.

All Tee Times will be confirmed to Sponsor in writing.

TOTAL

SUBMITTED:

\$

MAIL REGISTRATION FORM AND PAYMENT TO:

**DELTA CHAPTER API - c/o SMITH SERVICES - DRILCO/HE GROUP
1615 Poydras Street - Suite 830 - New Orleans LA 70112**

REGISTRATION & INFORMATION

Bob Freeman & Shelley Ducote
Smith Services - Drilco/HE Group
Phone: 504/525-2487
Fax: 504/561-6391
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THE CHALLENGE AHEAD FOR OIL & GAS

Red Cavaney

President and Chief Executive Officer

American Petroleum Institute, Washington DC



**Fairmont Hotel
New Orleans**

11:30 a.m., Thursday, November 14, 2002

Refreshments / Networking begins at 11:00 a.m.

**Please reserve your spot now!
\$25.00 per person**

**Please make checks payable to API Delta Chapter
(Advance reservations required; payable preferably in advance)**



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