SPWLA NewsLetter

SPWLA Japan Chapter

No.36 May 2001

SPWLA Newsletter
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The Seventh Well Logging Symposium of Japan

The Seventh Well Logging Symposium of Japan will be held at the Technology Research Center-Japan National Oil Corporation, Chiba on September 27-28, 2001. All persons involved with the Oil, Gas, Geothermal Energy and Geoengineering industry and research institutes are invited to submit abstracts for presentation at the symposium.

This 7th symposium will be the pre-meeting of SPWLA 2002 (The 43rd Annual Well Logging Symposium, Oiso, Japan, June 2-5th, 2002). Therefore, on this occasion a full paper is not necessary, instead only a 1 page abstract (plus on site presentation) is required. Selected papers from 7th symposium will be recommended for presentation and publication by the Japan chapter in SPWLA 2002.

Mark your calendar now to attend the Seventh Well Logging Symposium of Japan.

Abstract is due no later than June 15, 2001. For details, please refer to "Call for Abstracts" attached at the last page. Your contribution is expected. Let's submit Abstract!

Invitation to 36th Chapter Meeting

We would like to announce that the forthcoming Chapter Meeting will be held as follows.
This meeting is co-sponsored by JAPT (Japanese Association of Petroleum Engineer).

Venue : **Japan Petroleum Exploration Co., Ltd.**
24F Meeting Room, Tenouzu-yusen Bldg.
2-2-20, Higshi-Shinagawa, Shinagawa-ku
Tokyo 140-0022
Tel (03) 5461-7300
(See the attached map)

Date : **Tuesday, May 8, 2001**

Program:
15:00 – 17:00
"Defining 'Sweet Spots' in Sedimentary Basins through Practical Application of Reservoir Quality Technology"
by Stan Paxton (AAPG Distinguished Lecturer, Oklahoma State University)
* Presentations in English

Fee: JPY 1000

About of the Speaker and Topics:

See the next page.

2000-2001 AAPG Distinguished Lecture ABSTRACTS

Funded by the AAPG Foundation

STANLEY T. PAXTON

Oklahoma State University, Stillwater

Defining 'Sweet Spots' in Sedimentary Basins through Practical Application of Reservoir Quality Technology

Analysis of the distribution of porosity and permeability in some of the world's premier hydrocarbon provinces reveals that clastic reservoir quality (RQ) varies predictably with an established set of independent geologic variables. These variables, or 'controls', can be arranged in a scale-dependent hierarchical order. Beginning at the nucleus of the hierarchy, the controls include facies/stratigraphy, provenance, fluid types, pressure, faults/fractures, and temperature. The hierarchy is considered a checklist of important factors that can be employed by geoscientists and reservoir engineers to evaluate RQ potential in exploration settings.

The recognition and relative importance of these RQ controls was established through an integrated approach to RQ assessment, with emphasis on testing and ranking of key variables based on geologically constrained porosity/permeability populations. Each of these controls is quantifiable and mappable within the context of regional geology. Analyses commonly reveal that once porosity/permeability populations are partitioned according to the regional geology via simple statistics, rock property variations appear to be as expected in terms of fundamental geologic principles.

Practical application of these learnings to locating the occurrence and distribution of RQ 'sweet spots' in a basin or trend is best achieved with a series of maps that represent each of the RQ controls. These individual maps are composited to construct a 'sweet spot' map for each of the prospective stratigraphic intervals. To test the predictive capabilities of these maps, qualitative comparisons can be drawn between the 'sweet spot' maps and i) the mapped distributions of core analysis porosity/permeability and ii) producing fields. We commonly find that the optimum RQ in an area can be attributed to coincidence of favorable conditions for several of the RQ controls rather than dominance by a single control.

To date, we find a high degree of correspondence between the sweet spot maps and i) reservoir porosity/permeability, ii) the distribution of producing fields, and iii) the regional geologic framework. This correspondence suggests that our identification of RQ controls is nominally correct.

The presentation will also include discussion of the i) characteristics of successful case studies, ii) implications for prediction of RQ in deepwater reservoirs, and iii) recommendations for future technical work.

*Note: This material is based in large part on methods developed and work performed while the author was affiliated with ExxonMobil Upstream Research Company, Houston, TX.

— Stanley T. Paxton —

Education:

1974	Illinois State University, Normal, IL, B.Sc., Geology
1980	Miami University, Oxford, OH, M.Sc., Geology
1983	Pennsylvania State University, University Park, PA, Ph.D., Geology

Experience:

1982-1999	Exxon Production Research Company; Houston, Texas; Research Associate Assignments with Exxon included 1) group leader for numerous reservoir research projects, 2) on-site technical advising / problem solving for Exxon affiliates worldwide, 3) mentoring of new employees, and 4) technical recruiting coordinator.
1999 - present	Assistant Professor of Petroleum / Sedimentary Geology, School of Geology, Oklahoma State University, Stillwater

Research Interests:

Integrated Approach to Hydrocarbon Systems Analysis and Prediction of Reservoir/Aquifer Properties
Quantifying Relationships Among Sandstone Composition, Sediment Provenance, and Depositional Environment
Permeability Structure of Clastic Depositional Systems
Role of Rock Properties in the Geologic Evolution of Badlands
Analogs in Sedimentary Geology

Publications:

Author / co-author of 81 Exxon internally referred research and research application reports.
Numerous abstracts presented at AAPG, GSA, and SEPM National Meetings while employed by Exxon

Awards:

1990	Excellence of Presentation Honorable Mention for Best Poster Presentation, AAPG Annual Convention (San Francisco), ‘Preservation of primary porosity in deeply buried sandstones; a new play concept from the Cretaceous Tuscaloosa Sandstone of Louisiana’.
1998	Best International Poster Award, AAPG International Convention (Rio de Janeiro, Brazil), ‘Regional distribution of reservoir quality (RQ), Venezuela’.

Memberships:

American Association of Petroleum Geologists
American Association for the Advancement of Science
Society for Sedimentary Geology

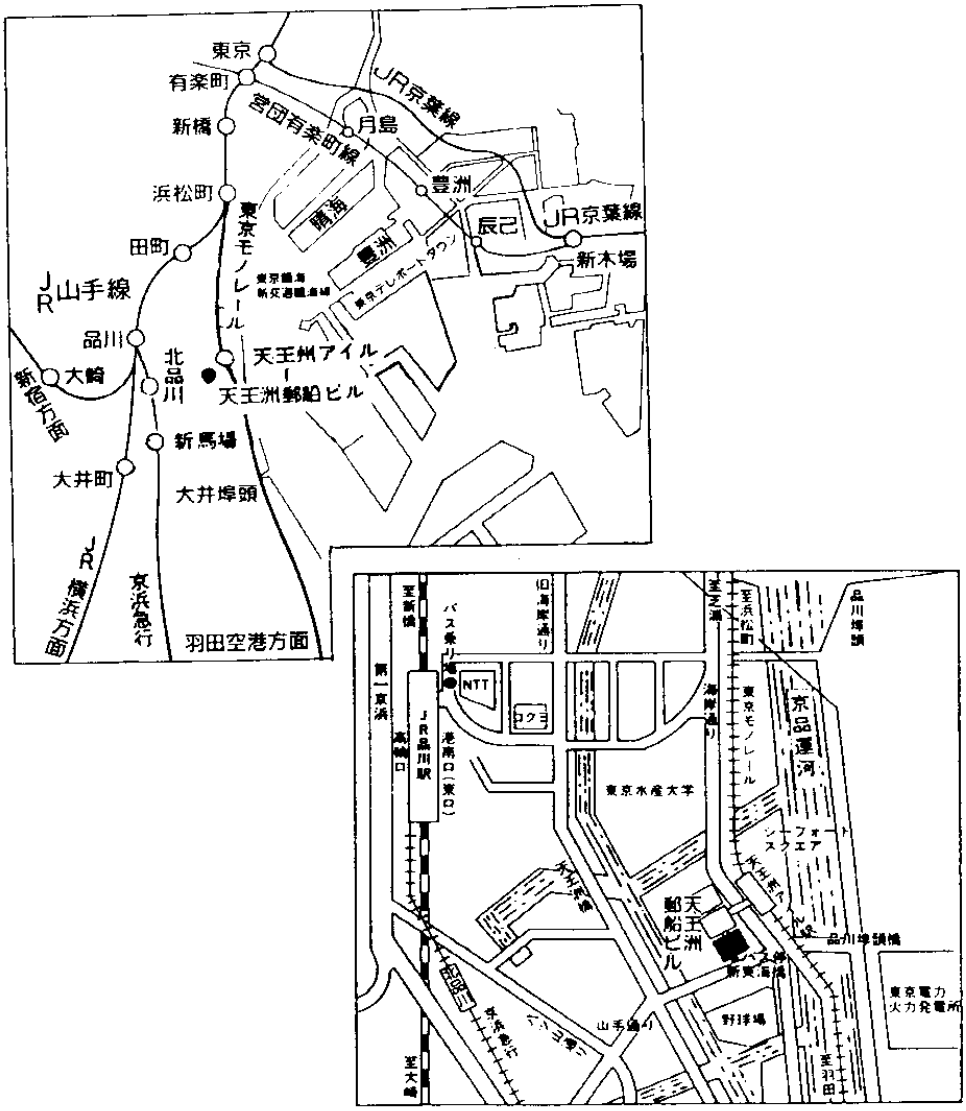
本　　社

東京モノレール「天王洲アイル駅」下車

ＪＲ品川駅下車港南口バス停14番にて乗車後「新東海橋」下車

京浜急行　北品川駅下車徒歩20分

新馬場駅下車徒歩15分



['94-'95 Annual schedule of Chapter Meetings]

May 23, 1994	*Japan National Oil Corporation*
July 25, 1994	*Japan Petroleum Exploration Co., Ltd.*
September 27, 1994	*Japan Oil Engineering Co., Ltd.*
November 29, 1994	*Technical Research Center, Teikoku Oil Co.,Ltd.*
January 23, 1995	*Indonesia Petroleum, Ltd.*
March 13, 1995	*Waseda University*
May 29, 1995	*Japan Oil Development Co., Ltd.*
September 21-22, 1995	*Technology Research Center, Japan National Oil Corporation*

['95-'96 Annual schedule of Chapter Meetings]

November 27, 1995	*Idemitsu Oil Development Co., Ltd.*
January 29, 1996	*Geothermal Energy R& D Co., Ltd.*
March 26, 1996	*Arabian Oil Co., Ltd.*
May 27, 1996	*Japan Petroleum Exploration Co., Ltd.*
September 26-27, 1996	*Technology Research Center, Japan National Oil Corporation*

['96-'97 Annual schedule of Chapter Meetings]

November 25, 1996	*Technical Research Center, Teikoku Oil Co., Ltd.*
January 27, 1997	*Indonesia Petroleum, Ltd.*
March 26, 1997	*Waseda University*
May 26, 1997	*Japan Oil Development Co., Ltd.*
September 24-25, 1997	*Technology Research Center, Japan National Oil Corporation*

['97-'98 Annual schedule of Chapter Meetings]

November 25, 1997	*Idemitsu Oil Development Co., Ltd.*
January 26, 1998	*Geothermal Energy R& D Co., Ltd.*
March 30, 1998	*Schlumberger K.K.*
May 25, 1998	*Japan Petroleum Exploration Co., Ltd.*
September 24-25, 1998	*Technology Research Center, Japan National Oil Corporation*

['98-'99 Annual schedule of Chapter Meetings]

November 27, 1998	*Technical Research Center, Teikoku Oil Co., Ltd.*
January 27, 1999	*Indonesia Petroleum, Ltd.*
March 31, 1999	*Waseda University*
May 25, 1999	*Tohoku University*
September 29-30, 1999	*Technology Research Center, Japan National Oil Corporation*

['99-'00 Annual schedule of Chapter Meetings]

November 29, 1999	*Mitsui Oil Exploration Co., Ltd.*
January 31, 2000	*Idemitsu Oil & Gas Co., Ltd.*
March 27, 2000	*Geothermal Energy R&D Co., Ltd.*
May 22, 2000	*Japan Petroleum Exploration Co., Ltd.*
September 26-27, 2000	*Technology Research Center, Japan National Oil Corporation*

['00-'01 Annual schedule of Chapter Meetings]

December, 4, 2000	*Schlumberger K.K.*
March 21, 2001	*Teikoku Oil Co., Ltd.*
May 8, 2001	*Japan Petroleum Exploration Co., Ltd.*
September 27-28, 2001	*Technology Research Center, Japan National Oil Corporation*

The Japan Chapter of
The Society of Professional Well Log Analysts

The Seventh Well Logging Symposium of Japan

-Pre-meeting of the SPWLA 2002-

TRC-JNOC, Chiba, September 27-28, 2001

CALL FOR ABSTRACTS

Sponsored by Japan Chapter of Society of Professional Well Log Analysts
Cosponsored by Technology Research Center, Japan National Oil Corporation
Supported by Japanese Association for Petroleum Technology
Society of Exploration Geophysicist of Japan
Geothermal Research Society of Japan
Society of Petroleum Engineers, Japan Section
Subsurface Instrumentation Division of MMIJ

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NOTE TO AUTHORS: This 7th symposium will be the pre-meeting of SPWLA 2002 (The 43rd Annual Well Logging Symposium, Oiso, Japan, June 2-5th, 2002**)**. Therefore, on this occasion **a full paper is not necessary, instead only a 1 page abstract (plus on site presentation) is required**. Selected papers from 7th symposium will be recommended for presentation and publication by the Japan chapter in SPWLA 2002. Notification of acceptance will be made in **June 2001**.

ABSTRACT IS DUE NO LATER THAN JUNE 15, 2001

-Submission by e-mail is preferable-

Submit abstracts to : Makoto Miyairi
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SPWLA Japan Chapter
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Title of Paper: .....
Author(s): .....
Corresponding Author: .....
Company: .....
Address: .....
Tel: ..... Fax:..... e-mail: .....
Has the paper been presented before(Yes or No) .....

Subject classified as (check):

- ❒ Acoustic/borehole seismic
- ❒ Borehole imaging
- ❒ Cased-hole/production logging
- ❒ General formation evaluation techniques
- ❒ Fractured reservoirs
- ❒ Geological applications
- ❒ Electrical/electromagnetic logging
- ❒ Reservoir Charactarization
- ❒ Measurements while drilling
- ❒ Petrophysical properties/relationships
- ❒ Geothermal Applications
- ❒ Geoengineering Applications