



# CV / Résumé

**Dr. Martin Novak**

## PROFILE

Martin Novak is an independent Consulting Geophysicist with 30 years Australian and international (North Sea, Alaskan, and GoM) experience in the oil and gas industry.

Principal consultant, owner / managing partner of AusGeos Pty Ltd

6 years geophysical contractor experience

8 years with Santos, Australia

15 years with BP, UK and International positions

Obtained B.Sc. and Ph.D. degrees at University of Edinburgh, Geophysics Department  
Thesis: Broadband Audio-Magneto-Telluric Investigation of a High Heat-Flow Region of Northern England.

Member SEG, ASEG, PESA

Dual British/Australian Nationality

Base Adelaide

## EXPERIENCE

**2010 - Present - Managing Partner, Geophysicist  
AusGeos Pty Ltd., Adelaide, Perth, London, Aberdeen**

Specialising in high quality Petro-Technical services to E&P companies. Services include consulting, provision of technical staff for clients (individuals and teams), specialised processing and re-processing of seismic data in Australia, UK and internationally (focusing on difficult seismic data and Geology- and Interpreter-driven processing), Project management from permit entry, through seismic acquisition, Seismic acquisition planning and QC, Interpretation, Seismic attributes, Inversion to rock properties, Prospect mapping, and Mentoring.

**Clients (since 2010):**

3D Oil, Adelaide Energy, Armour Energy, Bight Petroleum, Cooper Energy, Fleet Resources, InterOil Corp., MRT Tasmania, New Standard Energy, PetroFrontier Corp., Rodinia Oil Corp., Santos Ltd, Vic DPI/CarbonNet.

**2002 - 2010 - Santos Ltd.**



## **Adelaide, Australia, 8 years**

Manager Offshore Southern Exploration, permit management, gazettal applications, farm-outs, relinquishments, managing G&G team and support staff. Interpretation in Bonaparte, Carnarvon, Otway, Sorell Gippsland and Bass basins, and Cooper and Amadeus basins onshore. Principal Geophysicist, responsibility for Australian Data Interpretation (3D & 2D marine and land), Structural and Stratigraphic, Modelling, Attribute analysis, AVO, Seismic inversion, Seismic Acquisition, Processing and PSDM oversight, Depth-conversion and Visualisation, micro-seismic & fracture detection. Mentor and company expert worldwide.

Main areas: Bayu-Undan, Mutineer-Exeter, Exmouth Plateau, Fletcher-Finucane (WA-191-P), Hurricane, John Brookes (WA-214-P), Halyard/Spar (WA-13-L), Amulet (WA-320-P), VIC/P44 (Otway), Longtom, Kipper (Gippsland), T/32P, T/33P T/35P, T/36P (Sorell); Jakarta, Oyong and various Gulf of Mexico field evaluations.

## **1999 - 2002 - Consulting Associate**

### **PRA - PetroTechnical Resources Alaska, Alaska, USA, 3 years**

Senior PetroTechnical Associate, consulting with start-ups and major E&P Companies. Full Cycle G & G, from Seismic acquisition, Processing, Basin Evaluation, Permit Entry, Prospect Generation & Evaluation, Exploration, Appraisal, Development, Detailed Interpretation, Well Planning.

## **1992 - 1999 - BP Exploration Inc.**

### **Anchorage, USA, 7 years**

Senior Geophysicist Exploration, Alaska, Appraisal, Development, 2D/3D Interpretation, Well Planning, Main areas: Prudhoe Bay, Badami, Niakuk, Northstar, Kuparuk, N. American record in 1999 for Longest offset well, Equity negotiations, Seismic Processing QC, Basin evaluation, Prospect generation. BP Senior technical trainer (The Americas) Reservoir Appraisal & Development (with Corrigan & Kay).

## **1984 - 1992 - BP plc.**

### **London / Glasgow, UK, 8 years**

Geophysical Software development. Fortran code working on BP's interpretation workstation. Involved in supporting the start-up of Hampson-Russell. Senior Specialist Geophysicist: Seismic Interpretation, Seismic Processing, Depth Conversion, Ray-tracing, Attribute analysis, AVO, Well ties, Modelling, Seismic stratigraphy, Structural interpretation, Visualisation, Data Integration, Knowledge Management, Non-seismic Methods, Exploration, Appraisal, Development, Equity Negotiations, Well Planning.

Main Areas: North Sea UK sector, Statfjord, Forties, Bruce, Harding, Erskine. West of Shetland, Foinaven, Schiehallion, Clair. Southern N Sea, Amethyst, Ravenspurn.



**1981 - 1984 - BPB plc.  
Nottingham, UK, 3 years**

Gypsum Mining, Computing Geophysicist carried out computerisation of Exploration Geology and Geophysics Departments, with real-time link to Operations Lab and Mines. Hardware and Software expertise, Fortran code developer.

## **EDUCATION**

**Ph.D. Geophysics (EM Methods),** Edinburgh University, UK, 1981. Supervisor Bruce Hobbs, MTEM Ltd., now PGS.

**B.Sc. (Hon) Geophysics,** Edinburgh University, UK, 1978

**B.Sc. Physics,** Edinburgh University, UK, 1977

## **PUBLICATIONS**

**S G Thadani and M Novak.** Stochastic Modeling of Velocities from the Alaskan north Slope, SEG Expanded Abstracts, Los Angeles, CA, 1994.

**S G Thadani and M Novak.** Stochastic Modeling of Velocities for Seismic Depth Conversion, [invited paper], Proceedings SEG Depth Conv. Workshop, Tulsa, OK, 1995.

**S G Thadani and M Novak.** Stochastic Modeling of Velocities for Seismic Depth Conversion: An application from the Alaskan North Slope. Geostatistics Wollongong '96, pp 425-540, 1996.

## **SKILLS**

### **Project Management**

Business Management, Project Management, People Management. Hands-on leading and managing projects with multi-disciplinary teams, providing integrated seismic and non-seismic solutions for exploration, field development, fracture monitoring, and carbon storage purposes.

### **Seismic Acquisition**

Design, planning, execution, marine, land, transition zone, 2D/3D. Cost estimates, Preparation of Tender Invites, Bid Evaluation, Negotiation & Award, Contract negotiation.

### **Seismic Data processing**

Our business provides full Pre-Stack and Post-Stack, marine and land, 2D and 3D processing QC & Design. Crooked line processing, migration from paper records, full azimuthal processing, vintage re-processing, EOM methodologies.



### **Seismic Interpretation**

20 years of regional, basin, field and target specific 2D and 3D interpretation, Structural and stratigraphic objectives, working with all main industry platforms. Microseismic data interpretation.

### **Advanced Seismic Data Analysis**

AVO, Inversion to AI,  $V_p/V_s$ , Poisson's Ratio, EI, Extended Elastic Impedance (lithology and fluids), Integration with CSEM.

### **Non-Seismic - Data Integration - Knowledge Management**

Controlled Source EM & MT/AMT design, acquisition and interpretation; Grav/Mag, Satellite, Seep and Airborne Laser Fluorescence data.

### **Software**

Paradigm Suite, Hampson Russell suite, Geolog, IESX/Geoframe, TrapTester, Petrosys, DUG Insight, ERMapper, OpendTect, Seismic Unix, Globe Claritas. MS Office, All computer platforms Windows, Mac, Linux, Unix



Contact us: [info@ausgeos.com.au](mailto:info@ausgeos.com.au) | [www.AusGeos.com.au](http://www.AusGeos.com.au) | M: 0423 153 122