

# PARATINALA

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Editor: Elizabeth Baranyai

"The HGV aims to provide a dynamic continuing education program in which all persons with an interest in Histology and Histotechnology are freely invited to participate."

### **Committee Page:**

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Please feel free to contact any of the committee members listed above with any comments or suggestions. Contributions are always welcome.

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Please send articles on floppy disc (preferably Microsoft Word format) for inclusion in the next edition. All articles submitted for publication will then become the sole property of the Histology Group of Victoria.

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### Blurb from the Bush

Happy new year to everyone. The committee is currently full steam ahead organising the finer details of the forthcoming One Day seminar and workshops. If you have not registered already it's now time to get your paperwork in! Congratulations to Maria Chavez who has given birth to her first child Lucero Carolina. This however has not slowed her down, she is back and doing the committee thing, assisting where she can.

Scientific meeting topics for later in the year are still being finalised and will be advertised in due course.

A reminder to all members that the HGV can assist you in numerous things. If you are looking to sell old equipment, advertise a position vacant or simply would like to share some exciting news about yourself or other members, send through your information to <a href="membership@hgv.org.au">membership@hgv.org.au</a> to utilise both Paraffinalia and our email database.

Look forward to seeing as many of you as possible to the ODS in March.

Adrian Warmington HGV President

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## **Judith McNaughtan retires**



Judith started her career in histology in 1959 when she accepted a position at the Walter and Eliza Hall Institute of Medical Research. She did in fact start at the very top carrying out histology for Sir Macfarlane Burnet and following his retirement to Sir Gus Nossal.

In 1966 Judith moved to Queensland to take up a position at the Royal Brisbane Hospital. She remembers clearly what could only be now described as the old days of histology when specimens were embedded using brass triangles and blocks being trimmed and stuck on wooden blocks prior to sectioning.

Paper labels were used and all glass slides and cover slips needed to be cleaned prior to use. What a difference a few decades make.

Judith soon returned to Melbourne and accepted a position in Monash University's Department of Pathology and Immunology. A lot of the 18 years spent here were as Prof Richard Nairn's histologist. Prof Nairn spent most of his research time on fluorescent antibodies, so Judith developed a sound knowledge of immuno techniques that would prove valuable throughout her career.

When Prof Nairn retired to start up Norfolk Pathology Judith went with him to set up and run the laboratory. Specimens were being received even before a microtome and processor had

been ordered so Bill Kaegi was asked to process and section specimens until the necessary equipment had been delivered.

Judith's next position was with The University of Melbourne's Department of Otolaryngology where she ran the histology laboratory for 7 years. Much of her time was spent developing histology techniques to section the very difficult to orientate and section cochlea's for Professor Graeme Clark.

In 1995 Judith moved to the University's School of Dental Science. The Dental School runs a small diagnostic service and most of Judith's time has been spent running this valuable service to the industry. Class sets and research histology also being a part of the daily routine. Over the last few years one of the more interesting research projects has been to work with Dr Bryan Fry from the Department of Biochemistry and Molecular Biology and the Australian Venom Research Unit. He has made major inroads in researching venoms in reptiles and how they can be utilized for possible medicinal needs. Judith has sectioned numerous reptile heads to study the anatomy of salivary glands. This research has also resulted in Judith publishing with Dr Bryan Fry.

Being the sole person in a small histology laboratory means a lot of manual procedures have to be undertaken. No labeler, no auto stainer and no coverslipper. All staining techniques including immunohistochemistry and immunofluourescence are done manually. Special techniques including microphotography, radiography and scanning of slides with a digital scanner are also a part of Judith's routine. Histology covering all aspects from specimen reception, cut up, processing, sectioning, staining and labeling through to administration of the laboratory including filing of slides and pathology reports are all a part of Judith's day.

Judith McNaughtan has certainly had a long and interesting career. Apart from the impressive number of big name researchers she has worked with Judith has developed immense knowledge of techniques involving a large number of different types of material.

Judith has had a very successful career in histology.

I wish her all the best for her retirement.

Dennis Rowler Melbourne Dental School The University of Melbourne.

## **Article Review:**

Current Histological Preparation Methods for Mohs Micrographic Surgery J.K Robinson – Dermatological Surgery 27, 2001, 555 – 560.

Mohs micrographic surgery (MMS) is extensively used for the removal of non-melanoma skin cancers and has recently been used to remove lentigo maligna using quick permanent sections and frozen sections. Some institutions are also incorporating the use of immunohistochemical (IHC) techniques to help in interpretation and diagnosis. This study explores the current practices of laboratories performing MMS, investigating the use of immunostains and automated laboratory processes, by assessing quality improvement and decreased processing time when laboratories converted from manual to automated staining methods.

Out of 207 surveys sent, a total of 108 laboratories responded to a written questionnaire covering areas about the types of tumours resected with MMS, routine stains performed, average number of slides processed per day, and the use of automation and IHC.

Forty-nine percent of the laboratories surveyed ran completely manual in their methods, whilst 52% used automation. Of those using automated systems, almost all used the Linistainer, reporting good to excellent reliability. The average number of slides processed per day was 20-50 by 57% of the laboratories, whilst 17% prepared less than 20 slides per day, and 26% processed 51-100 slides per day. Thirteen percent of laboratories performed toluidine blue staining for BCC resections. The average time to stain a slide with toluidine blue or haematoxylin and eosin (H&E), was less than 10 minutes. This time increased to 10-20 minutes in laboratories that operated manually to stain H&E sections in 29% of laboratories, and increased even more up to 21-30 minutes in 3%. Longer processing time was significantly associated with using only manual methods. Processing more than 20 slides per day was linked to the use of the Linistainer to process slides. With those laboratories that converted from manual to automated methods, 29% reported that the processing time was decreased by up to 30%, whilst 72% reported improved quality of about 21-30%.

Thirteen laboratories in this survey were currently employing IHC staining on frozen sections; 92% processing less than 20 slides per day with IHC, the average time of processing being 60 minutes. The range of antibodies used included: HMB-45 (50% of laboratories), S-100 (42%) Mart-1, and Mel-5 (42%) for melanoma, 42% were using antikeratin for BCC and SCC, and 33% were using anti-CD-34 for dermatofibrosarcoma protuberans (DFSP). Performance of IHC was associated with MMS resections of melanoma or DFSP, and was seen to be less valuable in BCC and SCC resections. The time required for interpretation of sections with IHC, compared to interpretation without, was seen to be greatly decreased especially when diagnosing melanoma.

Laboratories processing less than 20 slides per days were all using manual methods to perform their routine histological staining, none processed tissue of melanomas or DFSP, and none performed IHC. In comparison, laboratories that processed 51-100 slides per day used automated methods and performed melanoma and DFSP resections. Performing IHC was associated with carrying out resections of melanoma or DFSP.

It was shown that automation made the technician increasingly available for mapping tissue, doing additional cases with more sections, or performing additional laboratory techniques such as IHC staining. Another benefit seen as a result of automation for the technician was the reduction of the repetitive wrist motion of dipping slides, which caused carpal tunnel syndrome in a few of the survey participants.

This study demonstrated that automation of routine slide preparation was shown to decrease processing time and decrease staining variability by providing a consistent environment. It was revealed that most laboratories do not perform IHC on MMS excisions due to the relatively high cost of reagents, lack of reliable automated processes, and additional technician and physician time, hence making IHC impractical for many laboratories in terms of the small amount of slides they produced per day.

Michelle Zammit
The Alfred Hospital



# Future Scientific Meetings: 2010

Org. No. A0035235F

## 19-20<sup>th</sup> March

One Day Seminar Venue – St. Vincent's Hospital, Melbourne

# 6<sup>th</sup> May

HGV/ASC Scientific Meeting – Student Presentations Venue – PeterMac

# 24<sup>th</sup> June

Scientific Meeting – Topic TBA Venue – PeterMac

# 30<sup>th</sup> July

Social Event – Trivia Night Venue – TBA

# 9<sup>th</sup> September

Scientific Meeting – Renal Biopsies Speaker - Professor John Dowling Venue - PeterMac

## 11<sup>th</sup> November

Scientific Meeting - AGM Venue – PeterMac

### <u>Under the Microscope</u>

Reported by Maria Chavez

### Elizabeth Baranyai Grade 2 Scientist Cabrini Health

### 1. What was your first job?

Shaking a tin for The Royal Victorian College for the Blind. I was only 13 and used to collect around Flinders Street Station.

### 2. What attracted you to Histology?

I always loved science as a kid and wanted to work in it. Once I started the course I enjoyed the hands on, non-automated discipline of histology and chose that field.

### 3. What is the worst decision you have ever made?

Being a guest on The Jerry Springer Show. However in my defense, the show had never been aired in Australia back then, so I was unaware of its tabloid nature.

### 4. What is the best decision you have ever made?

Going to the US in 1986 because I met my wonderful husband there.

### 5. Who would you most like to have dinner with and why?

Sir Richard Branson because he seems like a fun guy and I could pick his brain concerning some business ideas.

### 6. What music do you enjoy listening to?

Having been in a rock band during my misspent youth, I'd have to say good old rock music from the 70's and 80's. I recently saw Fleetwood Mac, and will be seeing AC/DC soon. I hear a rumour that Bon Jovi are coming, and if so, they will be a must see.

### 7. What is your favourite stain?

Masson Trichrome because I love the strong colours.

### 8. What is your favourite food/Restaurant?

Italian. A friend of mine in Italy took us to the best Italian restaurant ever where there were 3 tables full of anti pasta alone. We were almost too full to order mains and dessert, but managed somehow. They have a 6 month waiting list just to make a booking. It's called "Osteria il Gatto e la Volpe" (The Cat and the Fox Inn) in the town of Oleggio.

### 9. What are you reading at the moment?

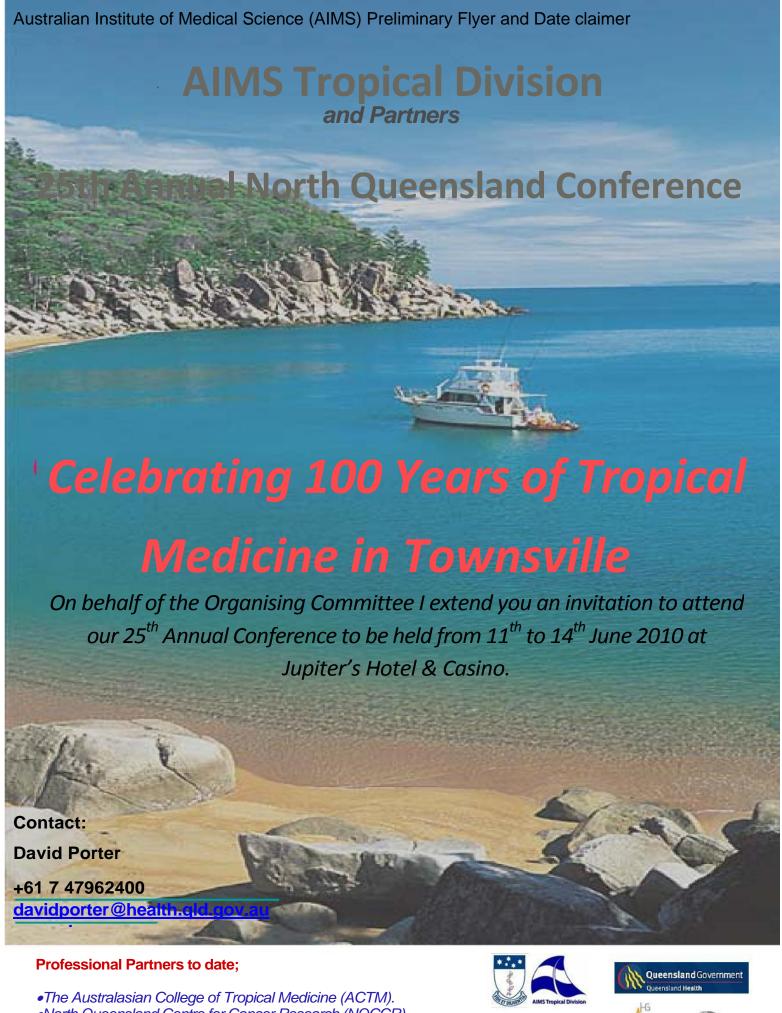
I've always been an avid reader, and to get through more books, I read a lot of audio books as I can do something else with my hands and read at the same time. So on audio book I am reading *Harry Potter and the Goblet of Fire*, and with my eyes I'm reading *The Five Greatest Warriors* by Matthew Reilly.

### 10. What is the best conference you have ever attended?

The Adelaide Conference last year was very good, and extremely well run.

#### 11. Are there any current projects you are working on at the moment?

Yes, planning my next holiday to Singapore, Italy and Switzerland.



- •North Queensland Centre for Cancer Research (NQCCR)
- •Histotechnology Group of Queensland
- Australian Association of Clinical Biochemists (AACB)
- Australian Phlebotomy Association
- Australian Society for Microbiology
- James Cook University











# HGV One Day Seminar Program March 19<sup>th</sup>-20<sup>th</sup> 2010

# Workshops Friday 19<sup>th</sup> March 2pm-5pm.

Speaker	Title
Julian Richardson	Basic presentation photography for medical scientists
Geoff Rolls & Neville Farmer	Assessing the quality of tissue processing

# One Day Seminar Saturday 20<sup>th</sup> March 8 am-5pm

Breakfast Session	
Beth Wilson	The role of the Victorian health
	commissioner.

Speaker	Title
Ms. Jean Mitchell	If you have the muscle I have the nerve
	(part 1: muscle biopsy basics)
Mr. Paul Crammer	Electron Microscopy
Mrs. Natalie Kvalheim	Veterinary histology
Dr.Chris Briggs	Forensic aspects of the 2009 Victorian Bushfire disaster.
Mr. Alex Laslowski	Contaminants in histology
IVII. AIEX LASIOWSKI	Contaminants in histology
Ms.Kerry Scott Dowell	The blame game in histology
	(Difficult specimens)
Prof. Anne Kelso	The influenza A(H1N1) 2009 pandemic in
	Australia"
Dr. Jacqueline Boyd	Title to be confirmed
Ms. Jean Mitchell	If you have the muscle I have the nerve
	(part 2: nerve biopsy basics)
Sue Sturrock	Title to be confirmed

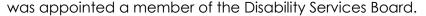
# Beth Wilson--Breakfast Session Speaker

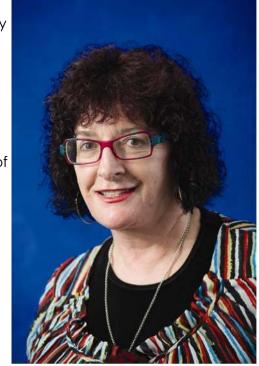
### PROFILE

On 1 May 1997 Beth Wilson became Victoria's Health Services Commissioner. She is a lawyer by training and has worked mainly in administrative law. Beth has had a long-standing interest in medico/legal and ethical issues.

The Health Services Commissioner receives and resolves complaints about health service providers with a view to improving the quality of health services for everybody.

Prior to becoming Health Services
Commissioner, Beth was the President of the Mental Health Review Board, a Senior Legal Member of the Social Security Appeals Board and WorkCare Appeals Board and a past President of the Victorian Branch of ANZAPPL (Australian and New Zealand Association of Psychiatry, Psychology and Law). In 2007 Beth





In October 2002, Beth was awarded Monash University's Distinguished Alumni Award for her outstanding professional achievements and inspirational leadership. In April 2003, Beth was awarded the Centenary Medal for her services to health, and in May 2004 Beth was awarded an Honorary Doctorate from RMIT for her contributions to health education. In 2008 Beth was inducted onto the Victorian Honour Roll of Women for services to women's health in Victoria.

Beth regularly conducts seminars, lectures and classes for consumers, carers, health service providers and others. Beth advocates for work-life balance and the importance of humour, story telling and music in providing inspiration and education and in health promotion.

# Jean Mitchell—Keynote Speaker

### **Biography**

Jean Mitchell resides in the state of Wisconsin, located in the Midwestern United States. She has been active in the field of histotechnology on state, regional, national and international levels for 30+ years, with numerous histotechnology presentations and publications to her name. Currently manager of the Neuromuscular Laboratory, University of Wisconsin Hospital and Clinics, Madison, Wisconsin, she is responsible for all aspects of muscle, nerve and punch skin biopsy specimens for the institution as well as outside clients within the state and regional Midwestern area. In her spare time she enjoys sporting events, traveling, spending time with her dogs and relaxing with a good book and a good wine.



### **Abstracts**

### If You Have the Muscle; I Have the Nerve: Part 1 - Muscle Biopsy Basics

Preparation of muscle biopsy tissue for clinical diagnosis presents a unique challenge to the histologist. A brief overview of anatomy and physiology of the normal human skeletal muscular system will be presented along with a review of abnormal clinical findings and symptoms that warrant a patient to undergo a muscle biopsy procedure. Transporting, handling and the special procedures that muscle biopsies require for optimal results will be discussed. The panel of non-enzyme and enzyme stains routinely employed for muscle biopsies with pathologic changes demonstrated by each stain and their relevance to disease states will be mentioned along with troubleshooting suggestions to ensure optimal staining results. The significance of immunohistochemical procedures and the use of electron microscopy to enhance/confirm muscle disease diagnosis will be presented.

# If You Have the Muscle; I Have the Nerve: Part 2 - Nerve Biopsy Basics and Case Histories

There are many facets to artifact free preparation of nerve biopsy tissue for clinical diagnosis that can present challenges to the histologist. A brief overview of anatomy and physiology of the normal human nervous system will be presented along with a review of abnormal clinical findings and symptoms that warrant a patient to undergo a nerve biopsy. Nerve electron microscopy and the unique method of single nerve fiber teasing will be discussed along with the relevance of these techniques in the diagnosis of nerve abnormalities. Case histories will be used to show the importance and impact nerve and muscle biopsies have in patient care.



# MELBOURNE MARCH19-20<sup>TH</sup> 2010

HISTOLOGY GROUP OF VICTORIA, ONE DAY SEMINAR





# **HGV ONE-DAY SEMINAR 2010**

# **MARCH 19-20TH**

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NOTE: \*A LAPTOP WITH PHOTOSHOP VERSION 2 OR BETTER WILL BE REQUIRED TO PARTICIPATE IN THE "BASIC PRESENTATION PHOTOGRAPHY FOR THE MEDICAL SCIENTIST" WORKSHOP.

KE	GISTRATION	HCK	COST
1.	SEMINAR REGISTRATION (STUDENT DISCOUNT ** AVAILABLE SEE		\$70.00
•	BELOW)		\$10.00
	BREAKFAST SESSION (PLACES ARE LIMITED, SO GET IN EARLY) WORKSHOP REGISTRATION #1 (BASIC PRESENTATION PHOTOGRAPHY		<b>#20.00</b>
э.	FOR THE MEDICAL SCIENTIST)*	1	\$30.00
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5.	WORKSHOP DINNER		\$40.00
6.	WORKSHOP DINNER PARTNER		\$40.00
7.	SEMINAR DINNER (INCLUDES DRINKS)		\$57.00
8.	SEMINAR DINNER PARTNER (INCLUDE DRINKS)		\$57.00
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9.	FULL WORKSHOP/SEMINAR #1 (BASIC PRESENTATION PHOTOGRAPHY		\$207.00
10	FOR THE MEDICAL SCIENTIST)*		¢207.00
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	Total	l \$	
PLI	EASE NOTE ANY DIETARY REQUIREMENTS FOR EITHER DINNER:		

See earlier pages for information on the Keynote and Breakfast session speakers.

NOTE: THERE WILL BE NO REGISTRATIONS ON THE DAY



Org. No. A003523F ABN 49 725 623 468

### **PACKAGE INFORMATION:**

### Full Workshop/Seminar Registration #1

Includes registration to workshop #1 (Basic Presentation Photography for the Medical Scientist), workshop dinner, registration to seminar, including breakfast session, lunch, access to trade, happy hour and seminar dinner.

### Full Workshop/Seminar Registration #2

Includes registration to workshop #2 (Tissue Processing), workshop dinner, registration to seminar, including breakfast session, lunch, access to trade, happy hour and seminar dinner.

### **Full Workshop Registration**

Includes registration to workshop #1 (Basic Presentation Photography for the Medical Scientist) or workshop #2 (Tissue Processing) and workshop dinner.

### **Full Seminar Registration**

Includes registration to seminar, which includes breakfast session, lunch, access to trade, happy hour and seminar dinner.



### **INFORMATION:**

#### LOCATION

Both the Workshops and the Seminar will be held at St. Vincent's Public Hospital, 41 Victoria Parade, Fitzroy, Victoria 3065.

#### **PARKING**

Parking is available in a multi-level car park behind the private hospital in Fitzroy Street. Cost is \$10 per day on weekends. Other limited street parking is available.

### WORKSHOPS

Both Workshops will be run concurrently on Friday from 2pm-5pm. A light afternoon tea will be available. They will be held at St. Vincent's Public Hospital, 41 Victoria Parade, Fitzroy, Victoria 3065. Exact location and name of room to be advised closer to the date.

#### **BREAKFAST SESSION**

The breakfast session will be held in one of the rooms at St. Vincent's Public Hospital, 41 Victoria Parade, Fitzroy, Victoria 3065. Room to be adjacent to Michael Chamberlain lecture theatre, labeled Room 1. Places are limited so get in early.

### WORKSHOP DINNER

The dinner will be at The Pumphouse Hotel, 128 Nicholson St, Fitzroy, a short walk from the Workshop venue. Dinner will commence at 7:00pm. Seminar delegates not attending the workshops but who will be in Melbourne on the Friday evening are welcome to register for the dinner.

### **SEMINAR**

The seminar will start at 9:00am and conclude at 5:00pm. Morning tea, lunch and afternoon tea is provided. There will be a happy hour at the conclusion, which is free. Please indicate on the registration form if you are attending.

#### SEMINAR DINNER

The dinner will be at the Kri Kri Greek Restaurant located at 39-41 Little Bourke Street, Melbourne, a short walk from the Seminar venue. It will include a 3 course set menu meal and drinks. Dinner will commence at 7:30pm and conclude at 12:00 midnight

### **TRAVEL**

Melbourne is approximately 25km from Tullamarine airport. To access Melbourne Airport via the Tullamarine Freeway, you may be required to obtain a <u>CityLink</u> pass. Passengers can also choose to travel toll-free to Melbourne Airport via the Western Ring Road.

SkyBus offers an express bus service from the airport to the city centre. This service operates 24/7, including all public holidays. Buses run from every 10 minutes throughout the day. \$16 Adult - one way - Return \$26

Taxis are available from the ground floor level of Melbourne Airport, outside Terminal 2 (T2 - International) and both domestic terminals (Terminal 1 - T1 and Terminal 3 - T3). Expect a taxi fare of around A\$80 to A\$85 for a return trip between the CBD and Melbourne Airport.



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### **PAYMENT:**

Upon receiving an invoice, payment will be accepted by:

Cheque or Money Order Direct Debit

Payable to: Histology Group of Victoria Inc Account Name: Histology Group of Victoria Inc

Address: PO Box 2226 Branch: St Vincent's Hospital Victoria

North Ringwood 3134 BSB No: 063449 Account No: 10065881

Include delegate name and invoice number

Cancellations up to and including February 26<sup>th</sup> will be completely refunded.

Cancellations after February 26<sup>th</sup> and before March 5<sup>th</sup> will receive 50% refund.

Cancellations after March  $5^{th}$  will forfeit payment.

### **ACCOMMODATION SUGGESTIONS:**

Metropole Hotel Apartments 44 Brunswick St Fitzroy 03 9411 8100 Fax: 03 9411 8200 Freecall 1800 061 441 reservations@metropole.org

www.metropole.org

Hotel Windsor Melbourne, 111 Spring St. Melbourne

Phone: 9633-6000

Link: www.wotif.com/hotel/View?hotel=W965&page=1&viewType-all

City Limits Hotel Apartment, 20 Little Bourke St.

Melbourne

Phone: 9662-2544/1800-808-651

Link- www.wotif.com/hotel/View?hotel=W3315&page=1&viewType-all