WORKSHOP ON
ELECTRON-ELECTRON INTERACTIONS
IN TOPOLOGICAL MATERIALS

SINGAPORE
JUNE 28-30TH
Workshop Venue:
Performance Hall, Yale-NUS College, 16 College Avenue West, Singapore 138527
Welcome

It is my great pleasure to welcome all of you to Singapore. The seeds for this workshop were actually planted 5 years ago when my program officer at the National Research Foundation suggested the idea of a workshop as a forum to showcase the exciting research happening in Singapore, and to exchange ideas about topological matter with experts around the world. Back in 2012, who would have guessed that topology would have been le thème à la mode this Summer. With the Nobel Prize in physics last year awarded for the theory of topological phases, the past few weeks have been a whirlwind of conferences. Earlier this month, the Singapore Institute of Advanced Studies sponsored a conference that brought two of these Nobel Prize winners, and the pre-conference school at Nanyang Technological University the week before was a boot camp for our students and postdocs. And just this past week saw the International Conference on Materials for Advanced Technologies in Singapore, the Gordon Research Conference on topological and correlated matter in Hong Kong, and the strongly interacting conformal theory workshop in Beijing.

Our workshop today shares speakers with all of these wonderful events. We have a wonderful line up of speakers: 9 speakers each from Europe and Asia, and 6 from North America, and at varying career stages from chaired professors and a Nobel Prize winner to postdocs and graduate students. By now the areas of topological materials and strongly correlated materials are each somewhat well established. However, the intersection of these two fields — the question of how electron-electron interactions influence topological materials is still somewhat in its infancy. What might distinguish our conference is that by bringing together experts on both topological materials and interaction physics, we might define together the key questions and frameworks to explore this confluence.

Of course this workshop would not have been possible without the generous support of the Singapore National Research Foundation, the Center for Advanced 2D Materials and Yale-NUS College. But I also thank the many people working behind the scenes to make this possible. In particular, thanks to the Yale-NUS team (Aniza, Grace, Suhana and Nabilia), the CA2DM team (Shirley, Bernice, Wei Fen, Miguel, and Ruifang) and members of my research group. I also express my gratitude to my partners-in-crime on the organizing committee: Antonio Castro Neto, Fakher Assaad, Igor Herbut and Justin Song.

Shaffique Adam
Yale-NUS College
NUS Department of Physics
Center for Advanced 2D Materials
Singapore, June 28, 2017
CONFERENCE
PROGRAM
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<tr>
<td>Wed 28</td>
<td><strong>8:00-9:00</strong> Breakfast</td>
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<tr>
<td>9:00-9:45</td>
<td><strong>Kostya Novoselov</strong></td>
<td>Manchester</td>
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<td>Evidence of electron-electron interactions in graphene</td>
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<tr>
<td>9:45-10:30</td>
<td><strong>Igor Herbut</strong></td>
<td>Vancouver</td>
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<td>Non-Fermi liquids, fixed point collisions, and tensor order in grey tin and in some popular field theories</td>
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<tr>
<td>10:30-11:15</td>
<td>Coffee Break</td>
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<tr>
<td>11:15-11:35</td>
<td><strong>Derek Ho</strong></td>
<td>Singapore</td>
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<td>Theory of Coulomb drag in spatially inhomogeneous materials</td>
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<td>11:35-11:55</td>
<td><strong>Shengyuan Yang</strong></td>
<td>Singapore</td>
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<td>Dirac and Weyl superconductors in three dimensions</td>
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<td>12:00-2:00</td>
<td>Lunch</td>
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<td>2:00-2:45</td>
<td><strong>Giovani Vignale</strong></td>
<td>Missouri</td>
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<td>Berry curvature and edge plasmons</td>
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<td>2:45-3:30</td>
<td><strong>Euyheon Hwang</strong></td>
<td>Seoul</td>
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<td>Quasiparticle interference and Fourier transform scanning tunneling spectroscopy in type II Weyl semimetal WTe2</td>
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<td>3:30-4:00</td>
<td>Coffee Break</td>
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<tr>
<td>4:00-4:45</td>
<td><strong>Vladimir Juricic</strong></td>
<td>Stockholm</td>
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<td>Disordered Weyl semimetals: Global phase diagram, the fate of Fermi arcs and the bulk-boundary correspondence</td>
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<td>4:45-5:30</td>
<td><strong>Jeil Jung</strong></td>
<td>Seoul</td>
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<td>Non-local exchange driven broken symmetry phases in multilayer graphene</td>
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<td>Thu 29</td>
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<td>9:00-9:45</td>
<td><strong>Sankar Das Sarma</strong></td>
<td>Maryland</td>
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<td>Topological theories are essentially non-interacting. What then are the role of interactions?</td>
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<td>9:45-10:30</td>
<td><strong>Cristiane de Morais Smith</strong></td>
<td>Utrecht</td>
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<tr>
<td>11:15-11:35</td>
<td><strong>Natália Menezes</strong></td>
<td>Utrecht</td>
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<td>Conformal QED in two-dimensional topological insulators</td>
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<td>11:35-11:55</td>
<td><strong>Ho Kin Tang</strong></td>
<td>Singapore</td>
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<td>The role of electron-electron interactions in two dimensional Dirac fermions</td>
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<td>2:00-2:45</td>
<td><strong>Fakher Assaad</strong></td>
<td>Wurzburg</td>
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<td>Deconfined phases and phase transitions of Dirac fermions</td>
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<td>2:45-3:30</td>
<td><strong>Lucas Wagner</strong></td>
<td>Urbana</td>
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<td>Predictive calculations for correlated materials</td>
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<td>3:30-4:00</td>
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<tr>
<td>4:00-4:45</td>
<td><strong>Hong Yao</strong></td>
<td>Beijing</td>
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<td>Fermion-induced quantum critical points</td>
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<td>4:45-5:30</td>
<td><strong>Erez Berg</strong></td>
<td>Chicago</td>
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<td>Detectable signatures of spin liquids</td>
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<td>7:00-10:00</td>
<td>Conference Dinner</td>
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FRI 
JUNE
30

8:00-9:00
Breakfast

9:00-9:45  Subir Sachdev  HARVARD  QUANTUM MATTER WITHOUT QUASIPARTICLES

9:45-10:30  Antonio H. Castro Neto  SINGAPORE  2D MATERIALS: AN UPDATE

10:30-11:15  Coffee Break

11:15-11:35  Giandomenico Palumbo  Utrech  EXCITONIC GAP GENERATION IN THIN-FILM TOPOLOGICAL INSULATORS

11:35-11:55  Jyong-Hao Chen  ZURICH  A MODEL OF CHIRAL SPIN LIQUIDS WITH ABELIAN AND NON-ABELIAN TOPOLOGICAL PHASES

12:00-2:00  Lunch

2:00-2:45  Vittorio Pellegrini  GENOA  ARTIFICIAL GRAPHENE IN GALLIUM ARSENIDE QUANTUM WELLS

2:45-3:30  Masaki Oshikawa  TOKYO  TBD

3:30-4:00  Coffee Break

4:00-4:45  Marco Polini  GENOA  FERMI ARC PLASMONS IN WEYL SEMIMETALS

4:45-5:30  Justin Song  SINGAPORE  BLOCH BAND GEOMETRY AND NEW COLLECTIVE MODES

Session chairs

Wed 28th June  Thu 29th June  Fri 30th June

9:00-10:30  Cristiane de Morais Smith  Yuan Ping Feng  Giovanni Vignale

11:15-11:55  Jeil Jung  Justin Song  Marco Polini (TBC)

2:00-3:30  LC Kwek  Pinaki Sengupta  Igor Herbut

4:00-5:30  Dario Poletti  F Assaad  Yidong Chong

Speaker Profile

9 from Europe

6 from America

5 from Singapore

4 from Asia (excluding Singapore)
MEALS
MAPS AND LUNCH SPOTS
UTOWN, HOLLAND V, CLUNY COURT
Nearby Restaurants as Lunch Options

NUS UTown Area:

**Flavours of Utown**
Stephen Riady Center
Opening Hours: Daily 7.30 am-10:30pm

**Koufu Food Court**
Town Plaza
Opening Hours: Mon-Fri 7.00 am-10:00pm
Sat-Sun 10.00 am-10:00pm

**The Royals Bistro**
The café offers a variety of western food such as Beef Shepherd’s Pie ($8.50) and Braised Lamb Shank ($16.90). They’ve also got pretty looking cakes like rainbow cake and red velvet cake, but the selection changes weekly and are subjected to availability.
Opening Hours: Mon-Sat 11am -8:30pm
Tel: 9777 1353

**Spice Table by Pines**
Serving comfort food at food court prices in a casual environment, Spice Table is a halal establishment located right behind the UTown bus stop. Offering Asian fusion food such as Indonesian-style Sambal Fried Rice ($5), Japanese Beef Teriyaki Set ($8.50) and Chicken Baked Rice ($6.50).
Opening Hours: Mon-Fri 10:30am-10pm
Tel: 6339 9912

**Waa Cow!**
Waa Cow! is a relatively new establishment. With a clean and minimalist interior, it certainly stands out from the other food places at NUS. Their popular mains include Signature Wagyu Beef Rice Bowl ($17.90) and Aburi Bara Chirashi Bowl ($16.90). Other sides such as Sweet Garlic Soy Glazed Chicken Wings ($8.90) and Shrimp Karaage With Mentako Mayo ($6.90) are also worth a try.
Opening Hours: Mon-Fri 11:30am to 3pm
Tel: 8168 8777

**Sapore Italiano**
Sapore Italiano offers a cozy and quiet environment for a nice meal with friends or to engage in people watching. Also, it could be the only place that serves alcohol in the whole of NUS, so now you know where to go when you need booze. The prices here are actually quite reasonable, with pastas and pizzas priced below $20. Tortellini al Nero di Seppia ($16.90+) and Risotto Al Funghi Porcini ($14.90+) are some of the better dishes there. Gelato is also available and you can enjoy them at UTown green or the breezy al fresco seating area.
Opening Hours: Mon-Sun 11am to 9:45pm
Tel: 6684 5137
Nearby Restaurants as Lunch Options
Holland Village

El Patio
Take a walk down Lorong Mambong, and you’ll quite literally run the gamut of culinary styles. El Patio is a rustic, homely eatery that offers fuss free and reasonably priced Mexican food. If you’re seated outdoors and the heat gets a little too much for you, cool off with a coronas or a couple of margaritas. El Patio also wins points for the free-flow nachos that go with drinks.
Address: 34 Lorong Mambong, Singapore 277691. Tel: 6468 1520.

Nakhon Kitchen
Tuck into a hearty plate of phad thai at this popular Thai eatery. Originally a hole in the wall joint in Kovan, Nakhon has gone on to open its fourth branch in Holland Village. Other standout dishes include Thai green curry and the ever-popular pandan leaf chicken. Best part? It won’t burn a hole in your wallet.
Address: 27A Lorong Liput, Singapore 277738. Tel: 6469 6862.

Crystal Jade La Mian Xiao Long Bao
Crystal Jade’s a household name, and the consistent hordes of hungry patrons stand testament to the franchise’s crowd-pleasing xiao long bao. Filled with hearty, rich broth and tender pork, Crystal Jade is the standard that xiao long bao is judged by.
Address: 29 Lorong Liput, Singapore 277740. Tel: 6464 9303.

363 Katong Laksa
Like prata at Jalan Kayu, there are throngs of laksa specialists claiming to be the original Katong Laksa. We don’t know that for sure, but 363 Katong Laksa checks all the boxes for us with their chewy rice noodles (small enough to eat with just a spoon of course), rich, spicy broth, and a generous portion of prawns. It’s also one of the cheapest places to grab lunch in the area.
Opening Hours: Mon-Fri 10:30am-10pm
Tel: 6339 9912

Gaia Korean Grill + Bar
Hansang’s not your only choice for Korean style grills at this food paradise, Gaia Korean Grill + Bar will satisfy any cravings you have for Korean BBQ with their delicious marinated meats – but it’s not all about the BBQ here. Gaia puts just as much effort into their other Korean dishes like cold buckwheat noodles, seafood pancakes and their banchan appetisers.
Address: 17E Lorong Liput, Singapore 277731. Tel: 6339 3313.
Sanpoutei Ramen
Fans of ramen swear by Sanpoutei’s shoyu ramen ($14), and its rich umami-packed vegetable, chicken and pork bone broth. But if the spice seeker in you wants sizzling-not-soothing, opt instead for the rich tori x spicy-miso ramen.
Address: #01-01, 253 Holland Ave.
Tel.: 6463 7277

Pho Hoa
There’s nothing like a steaming hot bowl of pho to get rid off last night’s pounding hangover, and Pho Hoa does up a bowl like no other. Piled high with tender beef slices atop chewy rice noodles in a rich, flavoursome broth, this American pho chain gets our pick for the best Vietnamese cuisine in Holland Village.
Address: 18 Lorong Mambong, Singapore 277683. Tel: 6467 4101.

Kinara
Don’t for a second think Indian food isn’t represented in this food paradise. Kinara’s your go-to for tasty North Indian nosh like kebabs, tandoori, naans and keema. Kinara also offers quite a wide selection of wines that’ll pair delightfully with your meal.
Address: 24 Lorong Mambong, Singapore 277683. Tel: 6467 4101.
ISLAND ATTRACTIONS
The city has many old buildings and well-presented museum displays which bring history to life. Chinese and Hindu temples as well as Muslim mosques welcome curious observers to discover their culture. Singapore’s natural parks do make the outdoors easily accessible too. The benefit of travelling in Singapore would be that most attractions are situated within the heart of the city and those that lie outside the urban centre can also be easily reached.

Singapore has a multitude of planned attractions for both visitors and locals alike. Not only does the city host two mega casino complexes, Marina Bay Sands and Resorts World Sentosa, it also houses Universal Studios Singapore, the first theme park of its kind in Southeast Asia.

**Chinatown**
When the first Chinese junk landed in Singapore sometime around 1821, the sailors aboard rushed to the shore and prayed to Ma Cho Po, the Goddess of Heavenly Sages, for bringing them safety to their destination. The Chinese and other merchants set up warehouses along the western bank of the Singapore River, and business offices, residences, clan associations and coolie houses filled the area behind Boat Quay. In 1822 when Raffles developed his Town Plan, he reserved this area for the Chinese to live in. As you tour Chinatown, you may be surprised to see a Hindu temple and even a couple of Muslim mosques. Although the area was predominantly Chinese, many Hindus and Muslims settled here as well.

**Little India**
If you visit Little India on a Sunday, be prepared for a mob scene the likes of Calcutta! Sunday is the only day off for Singapore’s many foreign Indian and Bangladeshi workers, so Serangoon Road gets pretty lively. The location of Hindu temples is neither by accident nor by Sir Raffles’ Town Plan. By tradition, it must always be built near a source of fresh water so that every morning, all the statues can be bathed before prayer. The water runs off a spout somewhere outside the main hall, from which devotees take the water and touch their heads.

**Kampong Glam**
Kampong Glam is the traditional heart of Singaporean Muslim life. Since early colonial days, the area has attracted Muslims from diverse ethnic backgrounds, fusing them into one community by their common faith and lifestyle. The name Kampong Glam comes from the Malay word kampong, meaning “village” and “glam,” which is a particular kind of tree that, at one time, grew abundantly in the area. The mosques in Singapore are a wonderful blend of Muslim influences from around the world. The grand Sultan Mosque has the familiar onion dome and Moorish styling of Arabic Muslim influence. The smaller but fascinating Hajjah Fatimah Mosque is a blend of cultures, from Muslim to Chinese, to even Christian – a testimony to Islam’s tolerance of other cultural symbols.
Singapore Botanic Garden
Situated just five minutes away from the bustling Orchard Road, Singapore Botanic Gardens is a lush sanctuary in the heart of the city. The garden has been developed along a three-core concept. The three cores are Tanglin (Heritage core retaining old favourites and charms of the historic Gardens), Central (Tourist belt of the Garden) and Bukit Timah (the educational and discovery zone). Each core presents an exciting array of attractions. Take your time to stroll around the gardens and enjoy the Wonderful sights, sound and wonders the luscious greeneries offered.

Jurong Bird Park
Home to 5,000 feather friends across 400 bird species, Jurong Bird Park Singapore houses one of the largest collections of birds in the world (admission: adult S$25, children S$16 and senior S$10; daily 8:30 am to 6:00 pm). You must visit key attractions which include the Bird Discovery Centre, African Waterfall Aviary, Lory Loft Aviary, Southeast Asian Aviary and award winning African Wetlands.

Singapore Zoo
Singapore's world famous open concept zoo is home to 216 different species of animals. Animals are presented in near natural environmental settings separated from visitors by moats with concealed barriers. Dense greeneries and excursion trails to the woods offer variety and intimacy to visitors.

Also, the Singapore Zoo is home to one of the largest collection of orangutans in the world and has the first free ranging exhibition.

River Safari
Enter Asia's first and only river themed wildlife park and meet over 5,000 animals, including 42 endangered species. The attractions include giant pandas Kai and Jia at the lush Giant Panda Forest – the largest panda exhibit in Southeast Asia; and be amazed by the world's largest freshwater aquarium exhibit at the Amazon Flooded Forest.

Night Safari
The Night Safari located next to Singapore Zoo is the first nocturnal Safari park in the world. Get onto a tram and watch over 1,000 animals of 115 species go about their business under lights designed to illuminate them without causing a change in night behaviour. The Night Safari has been, the Winner of the Best Visitor Attraction Experience by the Singapore Tourism Board 11 times.

East Coast Park
The park offers an exciting diversity of sporting, dining and recreational activities catering to various segments of the public. Volleyball courts, holiday chalets, restaurants and a hawker centre can all be found in this park. Come to the park on weekends and enjoy having picnics with your families or friends; sit back and let the inviting waves and fresh perennial sea breeze provide you with an invigorating relief to the stifling city heat and humidity. In the evenings, bring your families and friends down for a barbecue or indulge in sumptuous cuisines at the East Coast Seafood Centre.
**Sentosa Island**

Today, Sentosa has become a weekend getaway spot and Singapore's answer to Disneyland. It is also home to one of Singapore's two massive ‘integrated resorts’ – Resorts World Sentosa.

If you are spending the day, there are restaurants in abundance and a couple of affordable food courts. For a unique dining option, consider Sky Dining abroad the Jewel Cable Car, where you can spend a couple hours eating a three-or-four-course meal. It is especially popular on Valentine's Day or for birthdays and wedding proposals. For more information, visit www.mountfaber.com.sg.

For overnights, the Shangri-La’s Rasa Sentosa Resort & Spa, the Sentosa Resort & Spa and the Hard Rock Hotel Singapore at Resorts World Sentosa are popular options. For general Sentosa inquiries, you can contact the Guest Service Officers, available from Monday to Sunday (9:00 am to 6:00 pm); Tel. +65 6736-8672 or visit www.sentosa.com.sg.

The most entertaining way to get to Sentosa is to take the cable car. From the Cable Car Towers, they make the trip daily from 8:45 am to 10:00 pm (Last Boarding 9:45 pm). The cable cars extend up Mount Faber on the Singapore side. If you choose to take a cable car up to the top, you can take it back down again.

The **Sentosa Express light-rail train** operates between VivoCity shopping mall at the Harbourfront MRT station and Sentosa, with stops at the beach, major attractions and Resorts World Sentosa.

Board the train to Sentosa at VivoCity, third level, where you can purchase tickets. The train operates daily from 7:00 am until midnight.

A taxi can also take you there; pay the entrance fee after you cross the causeway and the driver can drop you anywhere you would like to go within the island. Otherwise, you can walk across the boardwalk on foot from the causeway entrance at VivoCity shopping mall.

The most notable attractions that you get free with your Sentosa admission are the Animal and Bird Encounters, a range of display featuring reptiles, macaques, parrots, and birds of prey that runs from 2:00 pm to 5:30 pm at the amphitheatre at Palawan Beach, the Nature Walk through a secondary rainforest and the beaches.

Sentosa has three beaches. At Siloso Beach (pictured), deck chairs, beach umbrellas and a variety of water sports equipment like pedal boats, aqua bikes, fun bugs, canoes, surfboards and banana boats are available for hire at nominal charges. Siloso, Singapore’s hippest beach also has the hottest volleyball action along with the coolest bars and restaurants for fun-loving people, with parties, music, lively bars and restaurants celebrating the beach lifestyle long into the night.

Palawan Beach is recommended for families as it has a longer stretch of beach, a fountain playground, a local hawker centre that are a favourite with adults and children alike. Tunjong Beach is a favourite for those who treasure its tranquillity and solitude; is the quietest and most remote of the three beaches.

Most attractions on Sentosa charge separate entrance fees. They include the Skyline Luge Sentosa; MegaZip Adventure Park, a ride on over 450 metres long and at 72 metres above sea level zip cable; Wave House Sentosa, with artificial waves for body-boarding and surfing; Sentosa 4D AdventureLand, an immersive 4-D movie; and the Tiger Sky Tower, Singapore’s tallest observatory tower which rises 131 metres above sea level with panoramic views across Sentosa and Singapore’s Southern Islands, as well as neighbouring Malaysia and even Indonesia.

The latest attractions include Universal Studio Singapore, featuring 24 movie-themed rides and attractions, 18 of which are unique to Singapore. Thrill seekers and families will be the first to experience the new rides and shows based on blockbuster hits; S.E.A. Aquarium, with more than 800 species of marine animals, the aquarium is home to majestic manta rays, enormous goliath grouper, napoleon wrasse and other gentle giants of the sea; and Adventure Cove Waterpark (pictured), is an aquatic adventure park with thrilling water slides such as Southeast Asia’s first hydro-magnetic coaster.

There are smaller islands surrounding Singapore, some of which are open for full or half-day trips. The ferry rides are cool and breezy, and they provide interesting close-up views of some of the larger ships docked in the harbour. The islands themselves are small and are seen as an escape from the daily grind – offering a peaceful respite for families.

**African Wetlands.**
**Kusu & St. John’s Islands**

are located to the south of Singapore proper, about a fifteen to twenty minutes ferry ride to Kusu (pictured); twenty-five to thirty minutes to St. John’s.

Its name meaning “Tortoise Island” in Chinese, many popular legends exist about how Kusu Island came to be. Kusu Island was originally two small islands and a reef, but in 1975, reclaimed land turned it into a small getaway island. There are two places of worship: a Chinese temple and a Malay shrine. The Chinese temple becomes a zoo during “Kusu Season” in October, when thousands of Chinese devotees flock here to pray for health, prosperity and luck.

Historically speaking, St. John’s Island is an unlikely place for a day trip. Today, you will find a mosque, holiday camps, three lagoons, bungalows, a cafeteria, a huge playing field and basketball. It is much larger than Kusu Island, but not large enough to fill a whole day of sightseeing.

Located off the northeast tip of Singapore, Pulau Ubin (pictured below) remains the only place in Singapore where you can find life as it used to be before urban development. It is truly a great day for those who like to explore nature and rural scenery. The best way to explore Pulau Ubin is to hire a bike and ride around the island.

For a laidback break from the hustle and bustle of the city, visit the Ubin Celestial Beach Resort Island, which offers plenty of outdoor activities and water sports. One big attraction on the island is the intertidal flat at Chek Jawa, which has extremely rare ecosystems, animals and plants.
USEFUL INFORMATION
Emergency Numbers & Useful Links

The following links and numbers may be useful should you need guidance around the island or emergency help.

Emergency Hotlines
- Police – 999
- Ambulance – 995
- Fire Brigade – 995
- For real-time flight information over the phone – 1800-542-4422

Credit Cards
- Diners Card – +65 6416-0800
- MasterCard – 800-110-0113
- Visa – 800-448-1250

www.streetdirectory.com
Most useful for addresses and phone numbers of your intended locations, and even provides several route options to your destination.

A complete listing of train services and use it to navigate your way around Singapore.

www.sbstransit.com.sg
Access to Intelligent Route Information System (IRIS) journey planner that provides travel solutions by bus based on cheapest fare, shortest walking distance or shortest travelling time.

Has a list of taxi companies you can book with in Singapore.

Has an extensive list of all the embassies in Singapore.
http://trust.yoursingapore.com
Has a comprehensive list of licensed travel agents in Singapore.

http://guides-online.yoursingapore.com
A useful list of tour guides in Singapore searchable by languages spoken and area of expertise.

http://www.onemap.sg
Find where you want to go and how to get there.

Singapore Tourism Board Offices Worldwide.

https://www.moh.gov.sg/content/moh_web/home/medical-directory.html
A directory of medical services available in Singapore.

Information in this booklet adapted from:
http://www.nus.edu.sg/oca/Retail-And-Dining/Food-and-Beverages.html
http://eatbook.sg/nus-food/