



# **IFALPA FTL/FRMS** Training in São Paulo, Brazil

**10 -11 October 2018** (2 days course)

Venue: SNA Head office in São Paulo  
Address: Rua Barão de Goiânia, 76  
Congonhas - São Paulo, Brazil.

# IFALPA FTL/FRMS

## Training in São Paulo, Brazil

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### Venue:

SNA Head office in São Paulo. Address:  
Rua Barão de Goiânia, 76, Congonhas, City of São Paulo, SP, Brazil.

### Fees:

IFALPA MA members / SNA members / Invited participants: : no registration fees.  
Others (to depend on vacancy left): BR\$300.00 (including coffee breaks) - payment  
(by credit card) at the event reception, on the first day of the event.

### Capacity:

60 (first come, first served)

**Registration by email:** [daniel.massini@aeronautas.org.br](mailto:daniel.massini@aeronautas.org.br)  
IFALPA MA members and SNA members: until September 10th.  
Others (non-members): registration will open on September 11th.

\*Applications must respect these deadlines.



# Course details

## Course Description & Objectives

The course is designed by pilots to pilots. Stimulating the use of an active teaching methodology, all the sessions will have 10 to 15 minutes for questions and answers. The two-days of the course are split into a first section of instruction activities followed by a second section of panel interactive discussions.

With experts in FRMS from Brazil, Argentina, Australia and European Union, the attendees should expect a quite interactive and fruitful training course.

## Course Outline

The course will start the first day with an introduction to sleep & fatigue science, and Fatigue Risk Management Systems, followed by a presentation about the Brazilian Fatigue Monitoring Project ('Fadigômetro'), an innovative and pioneer project in the world, that aims at the development of a database of the alertness level of Brazilian civil aviation crews during their working days. The Fadigômetro team will perform statistical analyses of human fatigue through the SAFTE-FAST software in a rosters sample of the Brazilian civil aviation, providing the identification of hazards related to the cognitive performance degradation, as well as determining the fatigue risk exposure.

The second day is scheduled to deepen the discussions with the focus on the practical implementation of FRMS; requirements of Safety Systems prior to implementation; challenges of the implementation of the FRMS and the importance of the participation of the flight crew members in the process and the implementation of the FRMS in Europe.

# Preliminary Agenda:

## Wednesday, 10 October 2018 - FTL/FRMS Training Course\*

09:00 – 09:05	<b>Introduction</b>
09:05 – 10:55	Dr. Adam Fletcher (Australia). Lecture: "Introduction to sleep & fatigue science, and Fatigue Risk Management Systems (FRMS)". – Part I
10:55 – 11:10	<b>Break</b>
11:10 – 12:50	Dr. Adam Fletcher (Australia). Lecture: "Introduction to sleep & fatigue science, and Fatigue Risk Management Systems (FRMS)". – Part II
12:50 – 14:00	<b>Lunch</b>
14:00 – 15:30	Captain Tulio Rodrigues and Captain Raul Bocces (SNA - Brazil). "The Brazilian Fatigue Monitoring Project ('Fadigômetro') - Application and Results of the IBR "SafteFAST" Software in Brazil".
15:30 – 15:45	<b>Break</b>
15:45 – 17:15	Panel interactive discussion: Dr. Adam Fletcher, Captain Tulio Rodrigues and Captain Raul Bocces, Captain Javier Martín Chico, Captain Alejandro López Camelo, Captain Alejandro Rivero, Captain Ivan Carvalho, Captain Caio Garcia, Philippe Pacheco, ANAC Representative, and other invited people.

## Thursday, 11 October 2018 - FTL/FRMS Training Course\*

09:00 – 09:05	<b>Introduction</b>
09:05 – 10:55	Dr. Adam Fletcher (Australia). "Practical implementation of FRMS: Basic, Intermediate and Advanced system components".
10:55 – 11:10	<b>Break</b>
11:10 – 12:00	Captain Alejandro Juan López Camelo (APLA - Argentina). "FRMS nowadays, reality and requirements of Safety Systems prior to implementation".
12:00 – 12:40	ANAC – Brazilian National Civil Aviation Agency. Proposed subject: "Regulator experience and an overview of the new Brazilian FTL & FRMS legislation". (to be confirmed)
12:40 – 13:40	<b>Lunch</b>
13:40 – 14:40	Captain Ivan Carvalho (Operational Safety Director at Azul Brazilian Airlines) and Captain Caio Garcia (Human Factors Coordinator at Azul Brazilian Airlines) - "Challenges of the implementation of the FRMS and the importance of the participation of the flight crew members in the process".
14:40 – 15:30	Captain Javier Martín Chico (European Cockpit Association and SEPLA-Spain). "The implementation of the FRMS in Europe".
15:30 – 15:45	<b>Break</b>
15:45 – 17:15	Panel interactive discussion: Captain Tulio Rodrigues and Captain Raul Bocces, Captain Javier Martín Chico, Captain Alejandro López Camelo, Captain Alejandro Rivero, Captain Ivan Carvalho, Captain Caio Garcia, Philippe Pacheco, ANAC Representative, and other invited people.
17:15 – 17:30	<b>Conclusions and Feedback.</b>

\*All sessions will have 10 to 15 minutes for questions and answers.

# Instructors:

## **Dr Adam Fletcher PhD, BSc (Hons)**

Dr Adam Fletcher is an advisor to numerous organisations within Australia and overseas. Since his return from the U.S. in early 2006 he has been focused on developing, implementing, and reviewing fatigue-related safety programs, with an emphasis on risk-based systems, for clients in 24/7 industries. Past and current clients for whom Adam has provided specialist safety and fatigue management-related consulting services include the Qantas Group, BHP Billiton, AirServices Australia, and the Victorian Department of Sustainability and Environment (Land and Fire Management).

Adam was previously employed as a specialist Research Psychologist working for the US Army, funded by a program aimed at better understanding how sleep deprivation affects operational performance and safety. Prior to that, Adam was a Senior Research Fellow at the University of South Australia's Centre for Sleep Research where he spent over 10 years as a student and staff member. He has graduated with a Bachelor of Science degree (with Honours) from the University of Adelaide and a research Ph.D. from the University of South Australia, in which he investigated the measurement and prediction of work-related fatigue.

Using algorithms from his Ph.D. efforts the hours of work-related fatigue prediction software FAID® has been developed by the Australian company InterDynamics Pty Ltd under a licence agreement with the University of South Australia.

Adam has previously fulfilled invitations to speak at institutions including: NASA, the Harvard Medical School, the Karolinska Institute in Stockholm, Sweden, and the United States Department of Transport in Washington, D.C.

## **Captain Túlio Eduardo Rodrigues PhD, BSc**

Captain Túlio Eduardo Rodrigues holds a PhD in Science by the University of São Paulo, with two Pos-Docs in Nuclear and Particle Physics. Has developed multidisciplinary studies related with biomatematical models and pilot fatigue. He is one of the experts in FRMS in Brazil.

Túlio is also a B737 Captain at Gol Airlines, and he is the SNA Secretary of Aircrew Health.

## **Captain Javier Martín Chico**

Chairman of ECA Training Licensing & Operations working group, SEPLA's Technical Department Director flying the A330/340 in Iberia since 2000. He has been involved in the Training Department of Iberia as Instructor, Examiner, CRM Trainer and CRM/Human factors Manager. Also for 5 years he was been working as Flight Safety Officer in the SMS in charge of fatigue, Human factors incidents and FRMS implementation. He has complete the Aviation Safety Program at the University of Southern California focusing in Human Factor, Accident investigation, SMS and Safety Data Management. Also he is professor at the Universidad Autónoma de Madrid.

## **Captain Alejandro Juan López Camelo**

Captain Alejandro J. L. Camelo retired as an Airbus-340 Captain flying for Aerolineas Argentinas. He also flew B-747, B-737, B-735 and B-727. He became ICAO SMS/SSP trainer in 2008. He has also been a Human Factor "train-the-trainer" professional for more than 20 years. He has focused in Fatigue and FRMS issues and lectured in several opportunities at the request of IFALPA both in our country and abroad. He was APLA's Safety Secretary for 3 periods and IFALPA RVP SAM SOUTH until recently.

## **Captain Ivan Carvalho**

Captain Ivan is the Operational Safety Director at Azul Linhas Aéreas Brasileiras since October, 2013, and is responsible for the SMS & Security implementation at Azul.

Ivan is also an Airline Captain at Azul.

## **Captain Caio Garcia Bsc,**

Captain Caio Garcia holds a bachelor's degree in Aeronautical Sciences as well as a lato sensu degree in Human Factors and Safety Management from Pontifícia Universidade Católica do Rio Grande do Sul. Caio has been at Azul since March 2009 and has flown as a Captain since 2014. After beginning on the Safety department as a Human Factors analyst in 2014, he became the Head of Human Factors in 2015 overseeing the FRMS, LOSA and HFACS programs.

## Suggested accommodations nearby:

### **Nobile Suítes Congonhas**

Prices: Double Room – R\$ 260.00 (± US\$ 67) (Booking.com).\*

Address: Rua Henrique Fausto Lancelotti, 6333, Campo Belo, São Paulo-SP. – 650m from SNA

Web site: <http://www.nobilehoteis.com.br/hoteis/nobile-suites-congonhas-sao-paulo/>

### **Transamerica Executive Congonhas**

Prices: Double Room – R\$ 265/night (± US\$ 68) (Booking.com).\*

Address: Rua Vieira de Moraes, 1960, São Paulo-SP. – 700m from SNA

Web site: <https://www.transamerica.com.br/nossos-hoteis/transamerica-executive-congonhas>

### **Mercure Sao Paulo Moema Times Square Hotel**

Prices: Single Room – R\$ 367.00/night (± US\$ 95) + 5% tax, or R\$ 318 (Booking.com).\*

Double Room – R\$ 416.00/night (± US\$ 108) + 5% tax, or R\$ 333,90 (Booking.com).\*

Address: Av. Jamaris,100, Moema, São Paulo-SP.

Web site:

<https://www.accorhotels.com/gb/hotel-3454-mercure-sao-paulo-times-square-hotel/index.shtml>

### **Meliá Ibirapuera Hotel**

Prices: book from R\$ 248\*/night (± US\$ 64.25), or R\$ 394 (Booking.com).\*

Address: Av. Ibirapuera, 2534, Moema, São Paulo-SP.

Web site: <https://www.melia.com/pt/hoteis/brasil/sao-paulo/melia-ibirapuera/index.html>

### **Bourbon Ibirapuera Hotel**

Prices: R\$ 218 (± US\$ 56,50)(Booking.com)\*

Address: Av. Ibirapuera, 2927, Moema, São Paulo-SP.

Web site: <http://www.bourbon.com.br/>

\*US\$ 1.00 = BR\$ 3.86.

## Hotel Reservation Assistance:

If you have any questions regarding hotels or need any help related to this, please send an email to: [eventos@aeronautas.org.br](mailto:eventos@aeronautas.org.br) with the subject: "HOTEL - IFALPA FRMS / FTL Training".

# Transportation:

## **Guarulhos International Airport To & From**

The Guarulhos International Airport is located 25 km from the city center of Sao Paulo. Several bus, taxi and transfers companies provide airport shuttle.

## **Uber, Cabify, Easy Taxi, 99 Taxi and Taxi Companies**

This is the easiest and most recommended way to get to your hotel near the event in São Paulo. You can access the Uber, Cabify, Easy Taxi, or 99 Taxi app, and take a ride at the Departures Level. Apart from taxis, the cabbies Guarucoop cooperative, has granted Infraero to operate the tracks exclusively for taxi from the airport of Guarulhos. The services offered are tabulated, bilingual drivers and receptionists and the fleet has more than 650 vehicles, all with four doors and air-conditioning.

## **Transfer Companies**

Transfer to Guarulhos airport, corporate events, city tour, travel, per diem, and cruise ports. Customer Service 24 hours.

## **Train**

The Guarulhos Airport Station is part of the 13-Jade line of the Companhia Paulista De Trens Metropolitanos - CPTM. The line connects GRU Airport to Engenheiro Gourelat station, from where you can access Line 12 - Sapphira, which goes to Tatuapé and Bras Stations, Central region of São Paulo. The station has three accesses. Guarulhos Access is located next to av. Marginal of the Baquirivu River and Joaquina de Jesus Street, allowing access to the Taboão neighborhood and to the EMTU terminal, which ensures the integration of users with the corridor of intermunicipal buses. The Airport Access is close to the Terminal 1 car park and from there passengers can board the free shuttle service to reach the other passenger terminals at the airport.

## **Bus Transportation to Guarulhos Airport**

Bus lines between Guarulhos Airport and Congonhas Airport are also an easy way to get to the hotels near the event in Sao Paulo.

Buses depart from Guarulhos International Airport, bound for the Congonhas Airport, Republic Square, Bus Terminal Tietê and Barra Funda, Itaim Bibi, Paulista / Augusta Hotels Circuit and Tatuapé Metro Station.

Airport Bus Service – EMTU

São Paulo (Tatuapé Metro Station – North Terminal)

São Paulo (Congonhas Airport)

São Paulo (Republic Square)

São Paulo (Hotels Circuit)

São Paulo (Itaim Bibi)

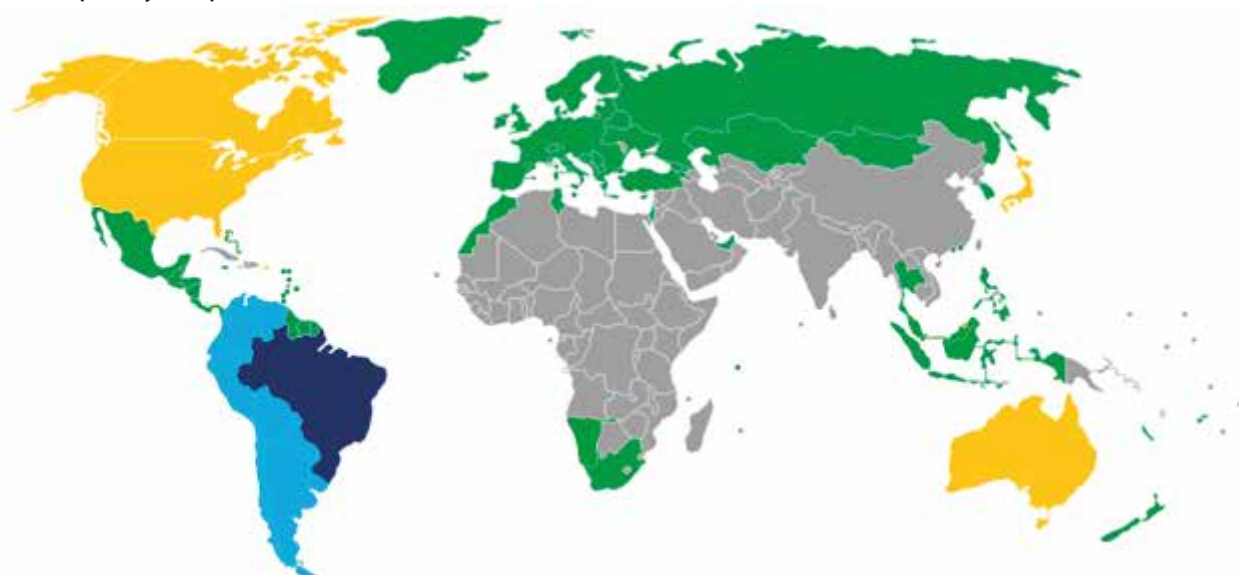
São Paulo (Barra Funda Bus terminal)

## Visa:

Brazil adopts diplomatic reciprocity. It do not require visa for most countries, such as Latin America and European countries.

Citizens of the United States, Canada, Japan, and Australia need a visa, but they can apply for a Brazilian e-visa online.

See the Visa policy map below:



Visa policy of Brazil

- Brazil
- Entry with identity cards possible
- Visa-free for business and tourism
- Visa-free for tourism only
- Electronic visa application available
- Visa must be obtained in person in advance

For those delegates with prior visa arrangements and in need of invitation letter from SNA, please contact the association's secretariat: Sylvia – [eventos@aeronautes.org.br](mailto:eventos@aeronautes.org.br) or +55 11 5090-5100 or visit: [www.aeronautes.org.br](http://www.aeronautes.org.br)

## Climate:

São Paulo has a monsoon-influenced humid subtropical climate . The city experiences warm summers with average temperatures between 25 and 30 degrees Celsius (77 & 86 degrees Fahrenheit). Winter is a bit cooler with temperatures between 10 and 20 degrees Celsius (50 & 68° Fahrenheit). Most of the rain falls in the warmer months and almost no rain is seen between June and August.



# About the hosting association:



The Brazilian National Flight Crew Union (SNA), will host, in the multicultural city of São Paulo, Brazil, the FTL/FRMS Training Course.

The city of São Paulo has the International Airport of São Paulo-Guarulhos (GRU), with international airlines serving destinations in many countries. It is the largest airport in Brazil and the busiest in Latin America in terms of the number of passengers transported.

SNA plans to host the course at its headquarters in São Paulo, located across from Congonhas Airport (CGH) and a few kilometers from important city spots.

Our building has structure suitable for classes, with an auditorium room with capacity for 80 people.

SNA strongly believes that having such important venue held in Brazil would be a very good opportunity to bring excellent education activities to South America and offer a suitable aviation course to the Member Associations, this time, in SAM region.

During the stay, the members will thus find an environment where they can study during the day and enjoy the city at night.

We look forward to your attendance at this important event. Come to Brazil

# Registration:

SALUTATION:		
NAME:	First Name:	Last Name:
PASSPORT No.:		Exp. Date dd/mm/yy     /     /
COUNTRY ISSUED:		
PHONE NUMBER:		
EMAIL ADDRESS:		
MEMBER ASSOCIATION:		

Fill this form and send to [daniel.massini@aeronautas.org.br](mailto:daniel.massini@aeronautas.org.br)

For further information, please contact Mr. Daniel at [daniel.massini@aeronautas.org.br](mailto:daniel.massini@aeronautas.org.br)

or by phone at +55 11 5090-5100