



ICVM-7

BOCA RATON, FLORIDA USA • 27 JULY - 1 AUGUST 2004

7th International Congress of Vertebrate Morphology

at Florida Atlantic University
Boca Raton, Florida
(27 Jul 2004 - 01 Aug 2004)



Convener
Jeanette Wyneken

Dept. of Biological Sciences • Florida Atlantic University
777 Glades Road • Boca Raton, FL 33431-0991 USA
Phone: 561-297-0146 • Fax: 561-297-2749 • Email: icvm7@science.fau.edu

Scientific Program Committee

Beth Brainerd, Chair (USA)
Andrzej Elzanowski (Poland)
Ann Huysseune (Belgium)
Jukka Jernvall (Finland)
Shigeru Kuratani (Japan)
Anthony Russell (Canada)

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Jim Hanken, ex-officio (USA)
Rick Harrison, ex-officio (USA)
Jim O'Reilly, Program Officer (USA)
Matthias Starck, ex-officio (Germany)
Jeanette Wyneken, ex-officio (USA)

Dear Colleagues:

I am happy to invite you to the 7th International Congress of Vertebrate Morphology to be held at Florida Atlantic University in Boca Raton, Florida, USA. This second circular provides you with information about the program of plenary speakers, symposia, workshops and contact information. Registration, housing and travel information are provided here. Please also visit our website <http://www.iconferences.org/icvm7/> to register, submit your abstract, and keep up to date on the latest Congress information. You are welcome to download this circular as a PDF file and please pass along the information about the ICVM-7 to your colleagues.

Jeanette Wyneken

FAU Co-sponsors

Charles E. Schmidt College of Science • Multicultural Premedical Honors Society
Division of Research and Graduate Studies

Abstract Submission and Early Registration Deadline, 01 Oct 2003



Plenary Lectures

Peter Aerts - **The Promise of Basic Mechanics in Functional and Ecological Vertebrate Morphology**

Frietson Galis - **The Conservation of Body Plans Through Internal Selection**

Susan Herring - **Mechanical Loading and the Mammalian Skull**

David Kingsley - **How is Morphology Encoded in the Genome?**

Olivier Rieppel - **Breaking Organisms Into Parts: Similarity, Stereotype, and Homology**

Lawrence Witmer - **Fleshing Out the Past: The Problem of Anatomical Novelty in the Fossil Record**



Symposia

Adhesion in Vertebrates -- Mechanisms and Biomimetic Implications

(Organized by W.J.P. Barnes)

Evolution of Developmental and Reproductive Patterns in Mammals

(Organized by K.K. Smith & U. Zeller)

Evolutionary Origin of Neural Crest and Placodes

(Organized by G. Schlosser & C.V.H. Baker)

Inferring Function and Behavior in Extinct Vertebrates

(Organized by D.M. Henderson and E. Snively)

Integrated Mechanical Investigations of Fish Swimming

(Organized by R.G. Root and J.H. Long)

Integrating Approaches to the Study of Terrestrial Locomotion

(Organized by S.M. Reilly & N. Stevens)

Linking Genes and Morphology

(Organized by F. Galis and J. Jernvall)

Making Headway -- Craniofacial Development in Model and Non-Model Vertebrates

(Organized by L.P. Hernández)

Mechanistic Approaches to Evolutionary Developmental Biology

(Organized by M.L. Zelditch)

Molecular and Morphogenetic Evolution of Specific Organs

(Organized by B. Fritsch and S. Kuratani)

Morphology and Paleobiology of Mesozoic Birds

(Organized by A. Elzanowski and A. Chinsamy-Turan)

Phylogenetic Approaches in Comparative Vertebrate Morphology

(Organized by T. Garland)

Respiration and Locomotion: Coupled Systems in Vertebrate Evolution

(Organized by S.F. Perry & D.R. Carrier)

Stem Groups and the Assembly of Vertebrate Body Plans

(Organized by P.C.J. Donoghue & M.A. Purnell)

The Ontogeny of Performance in Vertebrates

(Organized by A. Herrell & A.C. Gibb)



Poster Symposia

Morphology and Life Habits of Past and Present Giant Vertebrates

(Organized by R.A. Fariña and S.F. Vizcaíno)

Mechanisms and Tradeoffs in Vertebrate Burrowing

(Organized by B. Moon and J.C. O'Reilly)

Venom Delivery in Snakes

(Organized by B.A. Young and K.V. Kardong)

Morphological Transformations During the Transition to Dry Land

(Organized by Z. Rocek and J.A. Clack)



Workshops

Finite-element Analysis of Vertebrate Skulls

(Organized by C. Ross)

Fish Teeth Wet Lab

(Organized by H. Evans)

Imaging Techniques in Vertebrate Morphology

(Organized by T. Cranford)

Teaching Comparative Anatomy

(Organized by A.P. Russell and H.I. Rosenberg)



ICVM-7 Program Outline

Tuesday, 27 July 2004

1400 - 1800 - On-Site Registration (Marriott)

1600 - 1730 - Opening Ceremony and First Plenary Lecture (Marriott)

1730 - 1930 - Opening Reception (Marriott)

Wednesday, 28 July - Sunday, 01 August 2004

0800 - 1600 - On-Site Registration (FAU University Center)

0850 - 1800 - Symposia, Contributed Papers

1010 - 1040 - Morning Break

1200 - 1330 - Lunch

1330 - 1430 - Plenary Session

1430 - 1500 - Afternoon Break

2000 - 2230 - Evening Events & Poster Sessions

Friday, 30 July, 2004

1700 - 1800 - ISVM Business Meeting

Saturday, 31 July, 2004

1900 - 2200 - Evening Reception and Banquet

Sunday, 01 August 2004

1500 - 1600 - Closing Ceremony

Please join us Tuesday, July 27, at the Boca Raton Marriott for our Opening Ceremony and first plenary lecture, On-Site Registration and, of course, our Opening Reception to which all are invited. Our full scientific program begins on Wednesday, July 28 at FAU and continues through Sunday, August 01.



Location

The City of Boca Raton, Florida USA will serve as the venue for the 7th International Congress of Vertebrate Morphology. Boca Raton is located along the southeast coast of Florida just north of Fort Lauderdale and Miami and just south of Palm Beach.

Florida Atlantic University (FAU) is proud to host the 7th International Congress of Vertebrate Morphology. Plenary talks, the plenary sessions, poster sessions, and workshops will be held on the FAU campus. FAU is located in Boca Raton, Florida.



Registering

All attendees who will be submitting abstracts must register and pay their congress fees before submitting the abstract. For Registration, please visit <http://www.iconferences.org/icvm7/>. **Please register online and pay online using the secure online registration.** *Online registration and payment are strongly encouraged and are the preferred methods.* If you do not have Internet access please complete and return the attached form with full payment in US\$ by international money order to:

The Zenith Group
P.O. Box 835
Augusta, WV 26704 USA
REF: ICVM

Make payable to: ICVM

If paying by mail, you will have to pick up your receipt, if needed, at on-site registration on 27 July. The postmark will determine if early or late registration fees apply.

Deadline For Early Registration: 1 October 2003.

	Before 1 October 2003	After 1 October 2003
Full Participant	US \$310	US \$380
Student	US \$120	US \$120
Spouse	US \$100	US \$150
Exhibitor	US \$225	US \$285
Closing Banquet	US \$38	US \$38

Congress fees include: ICVM-7 information materials, abstract booklet, online access to abstracts for 2 months prior to the meeting, full access to all scientific sessions, the welcoming reception, refreshments during breaks, and shuttle bus access between the Marriott and FAU during scheduled times. Membership Fees (required) are collected on behalf of the International Society of Vertebrate Morphologists (ISVM) and are included as part of the Congress fees. From these fees, you gain access to the congress, updated information about forthcoming meetings and events as well as trends in the study of vertebrate morphology. Tours, social programs, meals, and accommodations are NOT included in the Congress fees.

If you need to cancel your registration, we can refund part of the fee if we receive your written request before 31 December 2003. We will retain 20% of your fees to cover administrative expenses. No refunds will be possible after 31 December 2003. All refunds will be issued at the conclusion of the meeting.



Housing

The Boca Raton Marriott has been selected as the housing headquarters hotel. The hotel is located at 5150 Town Center Circle in the heart of Boca Raton and is approximately a 7-minute drive and about a 40-minute walk from FAU. The Boca Raton Marriott has 256 well-appointed guest rooms with either 1 king size bed or two double beds. The Marriott has a health club, outdoor pool, and hot tub available for its guests. The hotel is connected to the Boca Center, which houses 30 shops and boutiques and 7 diverse restaurants.

All room reservations must be guaranteed with a credit card no later than 15 June 2004. The following room rates include continental breakfast each morning of your stay.

Room rates: Single Occupancy - \$85 USD
 Double Occupancy - \$90 USD
 Triple Occupancy - \$95 USD
 Quad Occupancy - \$100 USD

To make reservations please visit <http://www.thezenithgrp.com/>. If you have questions about your reservation, please contact dmarie@thezenithgrp.com

Transportation between the Marriott and FAU will be provided daily.



Currency

The currency will be in US dollars. Please change sufficient amounts for your daily needs. Electronic bank machines are available on campus and near the Marriott. Most local restaurants accept Visa, MasterCard, American Express and Discover Cards. They do not accept checks. Local banks exchange money and will cash travelers checks for a small fee. They are open Monday-Friday 10AM- 5PM.

Getting There

Air Travel:

There are three international airports close to Boca Raton: **Miami International Airport, Fort Lauderdale/Hollywood International Airport** and **Palm Beach International Airport**.

Driving:

Both FAU and the Marriott are located within easy access to the three airports. FAU and the Marriott are conveniently located near the major highway, I-95. Go on I-95 North/South. Exit Glades Road and go east; FAU will be approximately 1/2 mile on your left.

- **28 miles (~30 minutes) south of Palm Beach International Airport**
- **25 miles (~30 minutes) north of Fort Lauderdale International Airport**
- **46 miles (~50 minutes) north of Miami International Airport**

Commercial shuttle busses and limousines are available at all airports.

Public Transportation:

Tri-Rail provides service to the area's three international airports: **Miami International Airport, Fort Lauderdale/Hollywood International Airport** and **Palm Beach International Airport**. From the Boca Raton Tri-Rail station, FAU is easily accessible with the PalmTran bus number 94. For more information and train/bus schedules, visit the following websites:

<http://www.tri-rail.com/>

http://www.co.palm-beach.fl.us/palmtran/schedules/weekday/Rt94wkd_EB.pdf

Visa Information:

The State Department has been working with the International Visitors Office of the National Academies of Science to ensure that scientists, professional societies and science-meeting planners have access to useful information about the visa process. For its part, the NAS International Visitors Office has established a web-resource (<http://www7.nationalacademies.org/visas/>) that includes information and Internet links to federal agencies involved in the visa process. International attendees may require verification of registration for the Congress. A downloadable letter of invitation will be available on the Congress web site. If embassy personnel need a phone number to verify registration, they should call Donna Broadbent at 1-304-947-5377.



Boca Raton and the Surrounding Areas

Local Time Zone for ICVM-7: Eastern Daylight Time (EDT)

The City of Boca Raton, Florida USA will serve as the venue for the 7th International Congress of Vertebrate Morphologists. Boca Raton (26°N, 80° W) encompasses 27 square miles (70 square kilometers), has 5 miles of ocean front beaches, and a nature park system that covers approximately 1,080 acres (4.3 square km). The city is located along the southeast coast of Florida just North of Fort Lauderdale and Miami and just south of Palm Beach.

Boca Raton has one of the most delightful year-round climates. Southeast Florida has relatively mild temperatures throughout the year. The average annual temperature of 75 °F (22°C) is due in part to its proximity to the Gulf Stream that comes closest to shore along Palm Beach County and is particularly close at Boca Raton.



Florida's bright sunny skies are punctuated by short afternoon showers. These showers along with the refreshing breezes from the Atlantic Ocean keep the summer average temperatures in the low to mid 80's F (upper 20s C). Most Florida buildings are well air-conditioned, so bring a jacket or sweater for those times you are sitting indoors for long periods.

Boca Raton has many fine parks including ocean-front beaches. Many visitors enjoy the unique shops, many golf courses, scuba diving opportunities, and sport fishing. Major museums and aquaria are within driving distance of FAU. These include Gumbo Limbo Environmental Complex, the Palm Beach Zoo, Lion County Safari, the Miami Metro Zoo, Butterfly World, the Marinelife Center, and the Miami SeaQuarium. The Florida

Everglades adjoin the western side of Boca Raton. Attendees will also be visiting Florida during sea turtle nesting season. A visit to the beaches to see the turtles can be arranged through one of the state-authorized nature organizations; it can be like a trip back to the Triassic. For those more interested in art and architecture, a visit to Morikami Gardens, Viscaya or The Norton Museum of Art would be rewarding. South Florida is also the gateway to the Caribbean, with short flights, many less than an hour, available through travel agents or via online reservations.

The Mizner Park grounds and downtown are beautifully landscaped with decorative walkways and fountains that entice pedestrians to stroll throughout the site. In addition to various restaurants, cinemas and entertainment opportunities, Mizner Park provides an amphitheater, which is located on the north end of the grounds. This outdoor venue is the scene of many free concerts and other family recreational events throughout the year.



Florida Atlantic University

Florida Atlantic University (FAU) was founded in 1964 in Boca Raton on an 850-acre (344 Hectares) site located near the Atlantic Ocean. The main campus is conveniently located half way between Palm Beach and Fort Lauderdale. FAU offers a broad range of academic programs, activities, and services. In addition to the many research projects and other creative endeavors being conducted by individual faculty, more than 30 centers and institutes dedicated to specific disciplines and areas of investigation are in operation. Some examples in the fields of science and technology are the Center for Complex Systems and Brain Sciences, the Center for Molecular Biology and Biotechnology, the Florida Center for Electronic Communication and the Institute for Ocean Systems Engineering. The FAU Research Park, a thriving complex of nine buildings occupied by twenty five tenants on 60 acres (24 Hectares) of the Boca Raton campus, provides additional opportunities for research. A number of faculty and graduate student projects are ongoing in cooperation with various concerns located there. The Research Corporation, FAU's technology transfer organization, has its headquarters in the Park.

The five-story S.E. Wimberly Library houses a large collection of monographs, serials, and other academic resources. Computer labs, study lounges, a media center, and tutoring services also provide valuable academic support for students. The Boca Raton Campus hosts art exhibits, theatre productions, and concerts in its two galleries and theatre. Visiting performers and speakers add to the artistic and intellectual vibrancy of the campus.

With its graduate and professional programs, Florida Atlantic University offers advanced education responsive to evolving societal needs. These programs promote original scholarship and basic and applied research. Students work closely with faculty in the classroom, laboratory, studio, and field, to gain first-hand experience in the processes of research and the application of knowledge.

For more information on FAU visit the website <http://www.FAU.edu>



Abstract Instructions

Abstract Submission Deadline: 01 October 2003

Abstracts must be submitted for all poster and oral presentations, including symposium presentations. The first line of the abstract should contain the title. Names of all the authors should be listed on the second line. The name of the presenting author should be marked with an asterisk. Author names should be followed by a list of corresponding affiliations and current addresses. Identify each author and corresponding address with numbered subscripts. Figures and tables cannot be included in the abstract. Abstracts that do not follow the format guidelines will not be accepted.

Editing. The ICVM-7 abstracts will be published in a special issue of the Journal of Morphology. An editorial committee will edit the abstracts and make minor revisions in style, grammar, and spelling, if it appears necessary for clarity. The authors will be contacted only if the abstract needs extensive revising or editing. In this case, the authors will receive a copy of the revised abstract. If you do not want your abstract edited, please indicate so on the abstract form. However, the editorial board may decide not to accept the abstract if it is difficult to understand. Notice of acceptance will be given by 31 December 2003. The abstracts will be published online 2 months before the congress.



Registration Form

Please register though the Internet: <http://www.iconferences.org/icvm7/>

Or return this completed form-sheet together with your abstract form, if you are presenting a paper, and payment by mail to:

The Zenith Group
P.O. Box 835 • Augusta, WV 26704 USA
REF: ICVM

Make funds payable to: ICVM

Please print clearly all requested * fields and check program events that you plan to attend.

Mr. Ms. Dr. Prof.

*Surname: _____ *First Name: _____

*Department: _____

*Institution: _____

*Address: _____

*City: _____ *State (for US attendees): _____

*Country: _____ *ZIP or Postal Code: _____

*Phone: _____ *Fax: _____

*E-mail: _____

Special Assistance required

Accompanying Person(s): _____

Deadline For Early Registration: 1 October 2003

Before 1 October 2003

After 1 October 2003

Full Participant	<input type="checkbox"/> US \$310	<input type="checkbox"/> US \$380
Student	<input type="checkbox"/> US \$120	<input type="checkbox"/> US \$120
Spouse	<input type="checkbox"/> US \$100	<input type="checkbox"/> US \$150
Exhibitor	<input type="checkbox"/> US \$225	<input type="checkbox"/> US \$285
Closing Banquet	<input type="checkbox"/> US \$38	<input type="checkbox"/> US \$38

Will you be attending the opening social? (no extra charge). We need a count. Yes No

Students, please send copy of current student ID.

Personal Sponsorship

I would like to Sponsor:

Surname: _____ First Name: _____

Address: _____

City: _____ State (for US attendees): _____

Country: _____ Postal or ZIP Code: _____

Support: Registration Closing Banquet (meat and vegetarian dishes will be available)

TOTAL: \$ _____

Credit Card Information

Visa MasterCard American Express

Card # _____ - _____ - _____ - _____

Expiration Date _____ - _____

Address where credit card statement is sent:

Address: _____

City: _____ State (for US attendees): _____

Country: _____ Postal or ZIP Code: _____

Signature: _____ Date: _____



Abstract Submission

Slides:

35mm Slides may be projected from a single slide projector in each room.

MS PowerPoint (2000, XP):

We will supply computers and LCD projectors for each room. All projectors have vga connectors. They may not have the older Mac video connectors. If you must use your own laptop (e.g for Mac video files) we will provide the projector, configured as above.

If you bring just your files:

- Preferably create the presentation on a Windows computer.
- If you created your presentation on a Mac it will be transferred to a Windows machine. In order to do this the media must be readable by a Windows machine and the presentation should work under Windows PowerPoint. If you use fonts beyond those normally found on a default install of Windows you will need to embed them into your presentation.
- Scan your media for viruses.
- The preferred format for files is on CDROM or floppy. We cannot insure that you will have access to a ZIP drive. (Remember the media must be readable by Windows.)

Posters:

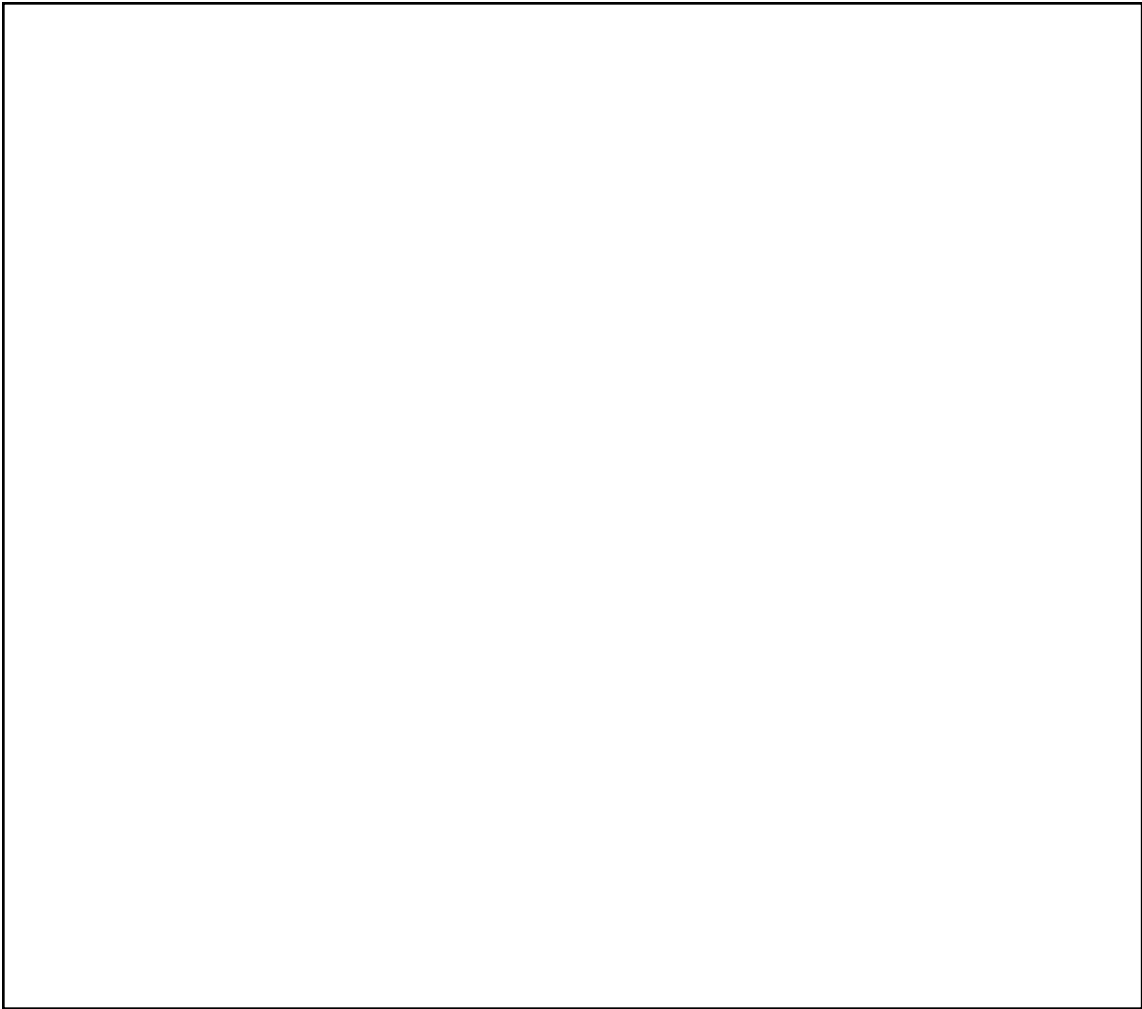
Posters may be 100 cm high and 150 cm wide. Text should be no less than an 18pt font.

Deadline: 1 October 2003

Authors:

Institutions:

Abstract Text (250 words maximum, including names of authors, addresses, and title). Follow formatting instructions given on previous pages.



No Editing

Type of Submission:

Symposium (invited)

Oral Contribution

Poster

Media Required:

35 mm slides

Video (NTSC format)

MS PowerPoint



Hotel Reservation

Please make your reservations through the internet: <http://www.thezenithgrp.com/>.

Questions about your reservation should be directed to Ms. Donna Broadbent,
dmarie@thezenithgrp.com

Or fax this form with credit card information to: Donna Broadbent, 1 (304) 947-5364

Please note that your credit card will not be processed. It is merely to guarantee your hotel room. You will be asked for your preferred method of payment upon check-in. If you will not be paying for your room with a credit card, please be advised that you will be required to leave a cash (US\$) deposit of \$50 for each day of your stay upon check-in.

Deadline for hotel reservations at the discounted ICVM-7 rate: **15 June 2004**

All room reservations must be guaranteed with a credit card no later than 15 June 2004. The following room rates include continental breakfast each morning of your stay.

Mr. Ms. Dr. Prof.

Surname: _____ First Name: _____

Department: _____

Institution: _____

Address: _____

City: _____ State (for US attendees): _____

Country: _____ ZIP or Postal Code: _____

Phone: _____ Fax: _____

E-mail: _____

Arrival Date: _____ July 2004 Departure Date: _____ 2004

Important: Please note names of all individuals you are sharing with:

Please check your preferred choice of room and your occupancy requirements:

- 1 King-sized Bed
- 2 Double Beds
- Single Occupancy - \$85 USD
- Double Occupancy - \$90 USD
- Triple Occupancy - \$95 USD
- Quad Occupancy - \$100 USD
- Rollaway cot (extra fee). There are a limited number of rollaway cots available.

Room type:

- Smoking Non-Smoking Handicap

This booking is an obligation. The general terms and conditions of the Marriott are binding. There is a 12% hotel tax in Florida that is not included in these rates.

Credit Card Information:

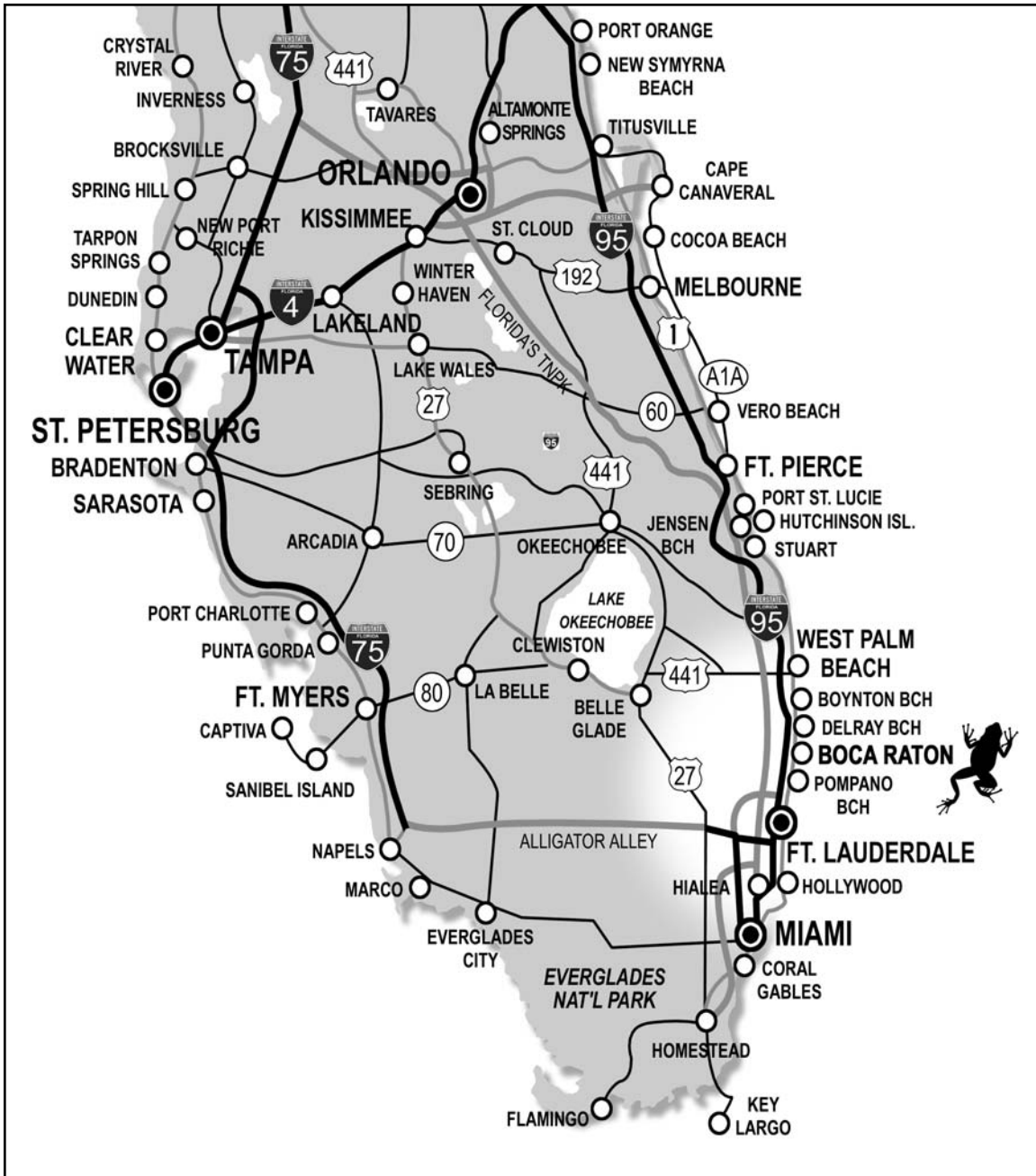
- Visa MasterCard American Express Discover

Card # _____ - _____ - _____ - _____

Expiration Date _____ - _____

Signature: _____ Date: _____

ICVM-7 rates are good for arrival 3 days prior and 3 days following the Congress provided the reservation is made before the cut-off (15 June 2004). Reservations made after the cut-off will be based on availability and will be at the current prevailing rack rate.



Abstract Submission and Early Registration Deadline, 01 Oct 2003