



# Bulletin

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Volume 3, Number 2

June 2007

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Paul D. Taylor, President

Judith Winston, President-elect

Timothy S. Wood, Secretary

Abigail Smith, Treasurer

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Further information at [www.nhm.ac.uk/hosted\\_sites/iba/](http://www.nhm.ac.uk/hosted_sites/iba/)

## News from the Membership

**Aaron O'Dea.** I won the Tupper Fellowship at the Smithsonian Tropical Research Institute to work on ecological changes in mollusk and bryozoan communities in the Tropical Western Atlantic. However, I will still continue working on Cupuladriids for some time to come, and I am still keen to hear from anyone who may have collected or seen cupuladriids in the field, both fossil and Recent.

**Beth Okamura.** I have recently moved to the Department of Zoology at the Natural History Museum in London to a position that will allow me to spend much more time on research. My PhD student, **Tanya Knowles**, has moved with me to continue her research using bryozoan remains to infer palaeoclimate regimes. Proximity to co-supervisor, **Paul Taylor**, is of course greatly aided by this move! **Hanna Hartikainen** will be coming as a postdoc in the autumn to work on freshwater bryozoans and their myxozoan parasites. In view of this we have set up three mesocosm systems, introducing living bryozoans to the depths of South Kensington! A developing research area is to characterise historical vs. present-day metapopulation ecology through the analysis of statoblasts and other organismal remains in sediment cores and this will provide the focus for a new PhD project. This research is greatly facilitated by my move to the NHM, allowing collaboration with colleagues with expertise in the analysis of other taxa in sediment cores (Dr Steve Brooks, NHM; Dr Carl Sayer, University College London).

**Kevin Tilbrook.** May \$. Quick note to announce the arrival of our new baby daughter Kitty Milly Mabel, born 4am last Monday weighing 7pounds 4ozs. She was nearly two weeks' early and gave us a fright, but both mum and daughter are in rude health!

**Mark Wilson.** Paul Taylor and I continue to investigate those mysterious hederellids. If we're right about them, the one thing we can say for certain is that they are not bryozoans!

**Emmy Wöss.** Thanks to a SYNTHESYS grant I had the opportunity to spend a month at the Natural History Museum in London in order to study the freshwater bryozoan collection there. This stay was very supportive for investigating specimens from outside Europe to compare them with samples obtained during field trips in Asia and Central America. My host Mary Spencer Jones was so incredibly supporting to all of my ideas and generously helped me to get out a maximum of results of my stay. Furthermore I also want to thank Paul Taylor very much whose help was essential at the SEM for improving the quality of my work there.



## New Members

I am **Rakia Ayari**, 30 years old. I am studying benthic fauna at the National Institute of Science and Technology of the Sea (Tunisia). I received my Masters degree on the marine environment. Now I am preparing my PhD on benthic fauna, with a special emphasis on bryozoans. These studies are conducted with the help of Dr. Paul Taylor. I am fascinated by this colonial invertebrate which is so poorly known in Tunisia. I look forward to being a bryozoologist diver and a specialist on this fauna.



While preparing my Masters degree, I worked on benthic fauna collected by VanVeen grab. When sorting my fauna, I would find some calcareous fragments, but I didn't pay as much attention to them as to other groups. When I started my PhD study, bryozoan presented the most abundant group, along with Polychaeta and Pericarida. In fact, the depth of stations and their location, the variation on granular texture may be the reason for that. I sorted them carefully since they were mostly small in size due to the collection method (dredging). I began species identification with the help of my colleague, Boumaiza Nessrine, who provided me with identification keys. She brought them from Italy where she had studied bryozoan systematics with Silvia Coccito. Unfortunately, she didn't continue with this line of research. Even with these keys I needed someone to help me with the identification of some species, especially those recorded for the first time in Tunisia Sea. For this reason I asked Dr. Paul Taylor, who agreed to help me study this fauna. I had the opportunity to visit the Natural History Museum of London in September 2006, to work there for two weeks and to have a look at the collection of Bryozoa. For this occasion I thank Dr Taylor and Mary Spencer Jones for their help and for the facilities which they provided for me.

There are few people who work on the bryozoan fauna of Tunisia. Most of the time this fauna is collected accidentally in multidisciplinary studies and is sometimes neglected. This group fascinates me and as I told you I'm looking forward to specializing in it.

**Alexander Gruhl.** I am a PhD student at the Free University of Berlin (Germany) in the lab of Thomas Bartolomaeus. For my thesis I am investigating bryozoan embryonic development, especially in the gymnolaemates. I am focusing on the formation of mesoderm, larval organs (musculature etc.) and nervous system. I graduated at the University of Bielefeld, Germany with a study on body cavities in phoronids, using mainly TEM techniques. This is also one of the methods I apply now. Additionally I use immunohistochemistry and cLSM. Two years ago I had the opportunity for a two-month stay at Friday Harbour Labs, where I could learn much about reproduction of Bryozoa as well as rearing and handling of larvae and embryos. I am interested in all aspects of morphology, reproduction and life-cycle evolution in Bryozoa.

I am looking forward to the IBA meeting in July!



## In Memorium

**Ivar Hessland**, one of the founding members of the IBA, passed away on May 4th 2006 after some years of very bad health. The IBA was founded in Stockholm in 1965 (or was it 1968?) a year when Alan Cheetham was visiting professor at Stockholm University Dept of Geology. The head of the department was professor Ivar Hessland who gathered a group of scientists on postpaleozoic bryozoans. The first regular IBA meeting came in Milan 3 years later. So in this way Ivar Hessland was one of a few "extra important founding members." Alan Cheetham wrote on this in the papers from the IBA Dublin meeting early 2000s.

Ivar himself was not a bryozoologist, his early research had been mainly on ordovician ostracods and tidal sedimentation but also quaternary calcareous sedimentation, the gigantic shell banks on the West coast of Sweden. Later on he worked to develop groups in his department on micropalaeontological studies as well as geomicrobiological studies in the Baltic Sea and mapping marine sea bottoms. He was an early Swedish initiator in these fields. (By Sten Schager - [sten.schager@telia.com](mailto:sten.schager@telia.com)).

**Iraida Pavlovna Morozova** died June 4, 2007. She would have been 88 on October 1. In a letter of condolence to her Russian colleagues, Paul Taylor wrote, “She was a magnificent bryozoologist and a very fine person. Her publications stand as a memorial to her outstanding contributions in bryozoology and will remain key works to be consulted by students of Palaeozoic bryozoans well into the future. Please accept my personal condolences as well as those of the International Bryozoology Association. We will remember her at next month's meeting of the IBA in Boone, North Carolina.”

Professor Morozova is shown here with some of her bryozoologist colleagues in a photo from Ken McKinney taken in 1978. Left to right: R. Goryunova, Iraida Morozova, Lena Viskova, Natalie Dunaeva



**Paul Whittlesea**, who died on 1st April 2007, was a prime example of the strong British tradition for dedicated amateurs to contribute and participate along with professionals in the natural sciences. His enthusiasm for the Norfolk Chalk and for bryozoans knew no bounds, and few – if anybody – matched his knowledge of outcrops and faunal distributions within this classic succession. Only a very small part of this knowledge was made available through his papers. At the time of his death he was working on a monograph revising the diverse cribrimorph cheilostomes from the Norfolk Chalk (see *IBA Bulletin* 2(2)). .

Despite his physical disabilities, Paul remained a very kind and extremely helpful person, sharing information with anyone who needed it. From personal experience I can verify that he was a very capable guide to the ever varying Norfolk chalk outcrops, and to the pubs in their vicinity.

Paul made many friends during the numerous IBA and Larwood conferences he attended. We were all looking forward to seeing him again this summer in Boone. Instead we shall mourn his untimely passing. (by Eckart Håkansson)



# How I started in Bryozoology

Francesco Toscano.

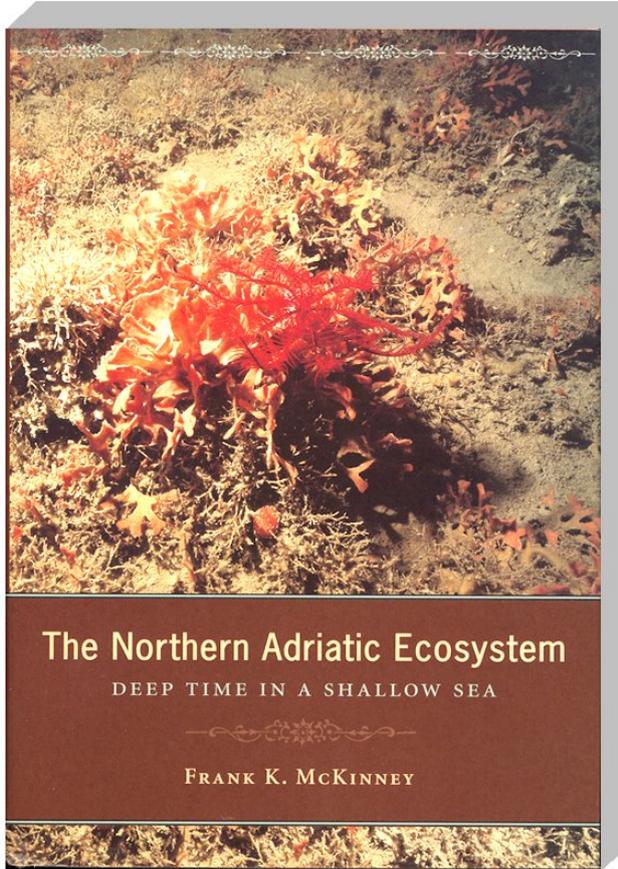
I started to study bryozoans as skeletal grains of the recent and miocenic cool water carbonates. My interest in this important marine invertebrate Phylum begun as a challenge when at the department of Earth Sciences my supervisor, Lucia Simone, asked me if I was interested in investigating bryozoans in a more detailed way. I was enthusiastic and I started to investigate how to start and where to apply to study their taxonomy and ecology.

My journey in the bryozoan world began in July 2002 when Paul Taylor allowed me to visit him at the Natural History Museum. After meeting and introducing myself I showed him the samples had brought from the Bay of Naples to London to sort and to get my training in Bryozoa. In less than a week Paul had me fascinated and definitively hooked by these organisms. He also surprised me when he told me that after Alfred Waters' report dated 1879 nobody had studied the bryozoans from my region.

After I returned to Italy Paul was invited to visit us and give a lecture at our department. This made bryozoans very popular for the students who attended it, and gave some of them choice this subject for their thesis. In 2003 and 2005 Paul and our department staff visited a rich Early Miocene bryozoan bed in Sardinia which subsequently allowed me to visit the NHM again.



## Bryozoan Bookstall



McKinney, F. K. 2007. *The Northern Adriatic Ecosystem*. Columbia University Press, New York. 299 pp. Hardback. \$60.

**Cover description:** This Paleozoic-style epibenthic marine community lived at 35 m depth in the northern Adriatic Sea by Sv. Ivan Island near Rovinj, Croatia, before destruction by an anoxic event in 1989. The bright red suspension-feeding stalkless crinoid *Antedon mediterranea* is using a large colony of the bryozoan *Pentapora foliacea* as a surrogate stalk, within an extensive field of dense erect, taxonomically diverse, calcified bryozoans. Abundant cryptically colored brittlestars are also present, perched within the higher parts of the bryozoans. The community had almost recovered the same taxa and ecological structure by 2000. Photograph by Andrej Jaklin.

Copies of this book will be available at Appalachian State University during the conference.



When bryozoologists get together every triennium it seems that constitutional issues always arise. Here then is a reprint of the most recent version of the IBA Constitution for those members needing a refresher (as well as for those who may never have seen it before....).

# **International Bryozoology Association CONSTITUTION**

## **Article I. Name**

**Section 1.** The name of this organization shall be the International Bryozoology Association.

## **Article II. Objectives**

**Section 1.** The objectives of the International Bryozoology Association are to encourage research on Bryozoa and stimulate others to participate and cooperate through informal meetings and correspondence; to provide a forum for exchange of ideas; to establish a means and an opportunity for personal contact and interaction in aiming for better mutual understanding; to serve as a liaison among bryozoologists; and to introduce new students to the workers in this field.

## **Article III. Membership and Affiliation**

**Section 1.** Members. Any individual who supports the objectives of the International Bryozoology Association and is willing to contribute to the achievement of those objectives is qualified for membership. Members shall be eligible to hold elective positions in the association and shall have the right:

- (a) To vote for the President, President-Elect, Secretary, Treasurer, Conference Proceedings Facilitator, and regional representative on the Advisory council; to nominate additional candidates for those positions.
- (b) To vote on the recall of elective officers.
- (c) To vote on amendments to the Constitution and to propose amendments to the Constitution and Bylaws.

**Section 2.** The membership consists of all members of the Secretary's roll at time of adoption of this Constitution. Qualified persons become members upon application to the Secretary. Continuation of individual membership is contingent upon timely payment of assessed dues.

**Section 3.** Affiliations. The International Bryozoology Association may affiliate with other scientific associations upon approval of the Advisory Council.

Suggestions for such affiliations may be made by any member to the Advisory Council.

#### **Article IV. Officers**

**Section 1.** The officers shall be the President, President-Elect, Secretary, Treasurer, and the Conference Proceedings Facilitator.

**Section 2.** Duties.

(a) The President shall preside at the business meetings, plan the triennial conference in consultation with the Conference Host, including arranging the paper sessions and technical programme; chair the Advisory Council; and represent the Association on appropriate occasions and such other duties as may be associated with this office.

(b) The Secretary shall maintain an accurate membership roll. A copy of this roll shall be supplied to each member annually. The Secretary shall also supply to each member an annual Newsletter in which following the triennial conference there shall be a copy of the minutes of the business meetings and a report of the conference; and maintain the official files of the Association.

(c) The Treasurer shall collect the prescribed dues and disperse funds for Association business, and other such duties as may be assigned by the President.

(d) The Conference Proceedings Facilitator shall see to the publication of the proceedings of each conference, including maintaining contact with the publisher(s), signing contracts as necessary, dispersal of volumes to conference registrants, advertisement of the Proceedings volumes, and any other such duties as may be required for successful production and distribution of the Proceedings volumes.

**Section 3.** At the triennial business session at the International Conference, the officers shall be elected by the members present from a list of candidates presented by the Committee on Nominations. Additional nominations may be made by members and/or by letter from members absent. The term of office shall be three years for the President and six years for the Secretary, Treasurer, and Conference Proceedings Facilitator. The Secretary, Treasurer, and Conference Proceedings Facilitator may stand for re-election.

#### **Article V. Advisory Council**

**Section 1.** Duties. The Advisory council shall advise the President on matters he brings before it, for example, conference site selection. It shall also serve in whole or in part as the Committee on Nominations, act in the absence of the

President to conduct the Conference, and elect a new President, Secretary, and/or Treasurer if these officers resign or cannot serve.

**Section 2.** Membership. The Advisory council shall provide balanced representation among regions and consist of at least 10 members, in addition to the President, Secretary, Treasurer, Conference Proceedings Facilitator, Past President, President-Elect, and past Conference Host. The term of office shall be 6 years, with half of the membership elected each triennium.

## **Article VI. Conference Host**

**Section 1.** The Conference Host shall be the member who will be responsible for the local arrangements for the triennial conference at the host institution. He will co-ordinate the use of physical facilities, including conference meeting rooms, dormitory and dining accommodations, and field trips and social programme, with the programme being arranged by the President in consultation with the Conference Host.

**Section 2.** Whenever possible the Conference Host will be responsible for editing the Proceedings volume resulting from the Conference.

## **Article VII. Code of Ethics**

**Section 1.** In order to protect individual rights and to promote discussion it shall be an established requirement of each Conference that no information presented is to be used later in formal publication or formal presentation without acknowledgement for the individual making the contribution.

## **Article VIII. Amendments**

**Section 1.** Amendments to this Constitution may be proposed by any member. Proposed amendments must be submitted at any time prior to 24 hours before the business meeting in writing to the President and Secretary.

**Section 2.** Voting on amendments shall take place at a business session of the Conference or by mail, at the discretion of the President. If presented at a meeting, a proposed amendment shall require for its adoption a favourable vote of two-thirds (2/3) of the membership attending the business meetings. If presented by mail, a proposed amendment shall require for its adoption a favourable vote of a simple majority of the responding membership of the IBA.

Amended: 27 November 1998, London

Amended: 20 July 2001, Dublin

## Constitutional Issues

At every triennial conference it is customary for the Advisory Council to meet over various organizational questions and then bring these issues for discussion before a full business meeting of conference participants. Among the issues likely to be raised this year are:

**IBA Dues: Required or Voluntary?** Article III, Section 2: “... *Continuation of individual membership is contingent upon timely payment of assessed dues.*” In Chile on January 12, 2004 the Advisory Council agreed that “Dues will remain voluntary among the membership in order not to exclude anyone for whom payment would be a hardship.” This recommendation was reaffirmed by the Council in 2005. However, since this suggestion is now in conflict with the Constitution, the issue needs to be resolved by IBA members: Should dues be a condition of membership, or should members simply be encouraged to support the IBA with voluntary financial gifts? Or should other options be considered?

**Electronic *Bulletin* or Hard copy *Newsletter*?** Article IV, Section 2 states: “... *The Secretary shall also supply to each member an annual Newsletter in which following the triennial conference there shall be a copy of the minutes of the business meetings and a report of the conference; and maintain the official files of the Association.*” Since June, 2004 the IBA Secretary has assembled and distributed a quarterly electronic *IBA Bulletin*, replacing the annual *Newsletter*. In 2005 the Advisory Council approved this change, but also made the following suggestions:

- A hard copy of the membership list may still be useful to members, and this could be distributed after each triennial conference (perhaps together with a full conference report);
- Official hard copies of the *IBA Bulletin* should be retained for archival purposes, and back issues should be posted on the IBA website;
- Money saved by eliminating printing and postage of the annual *Newsletter* should be used to defray student expenses at IBA conferences.

These issues need to be aired among the IBA membership. Is there need for both the electronic *IBA Bulletin* and the paper *IBA Newsletter*? What about defraying conference expenses for certain participants?

**Election of Officers: Continued polling by Email?** Article IV, Section 3. “*At the triennial business session at the International Conference, the officers shall be elected by the members present from a list of candidates presented by the Committee on Nominations.*” However, at the two most recent conferences the selection of a new President-Elect was postponed so that the entire membership could have the opportunity to vote by email. Do we wish to continue this practice with an amendment to the constitution? Should other officers also be elected by email?

Members who are not planning to attend the 14<sup>th</sup> Conference in North Carolina may wish to make their views known on these or any other organizational issues. The Secretary will be happy to receive your comments. These will be posted for public viewing at the conference (anonymously if you wish), and will also be passed along to the Advisory Council. Please contact Tim Wood at [tim.wood@wright.edu](mailto:tim.wood@wright.edu).

## ***IBA Meeting 2007 – Information***

*Steve Hageman, Conference Host*

### ***Currency Exchange***

There is **no** place to exchange currency in the town of Boone.

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There is no place to exchange currency in the town of **Boone**.

The **closest** place to Boone to exchange currency is the Charlotte Airport.

Options for obtaining US currency. **Any one of these will work** (but good to have backup).

- 1) Currency exchange in Charlotte Airport (or en route to Charlotte)
- 2) Automatic Teller Machine (ATM) Bank Cards will work by debiting your home account and providing US cash. This is the best option & exchange rate. International bank systems that are supported locally (look on the back of your card): Cirrus, Plus, Star, Quest, AFFN, Visa, Master Card, Maestro, Discover, AMEX
- 3) Every restaurant and shop in town will accept Visa and Master Card credit cards. Some accept others such as Diners Club and American Express. Using credit cards provides an efficient exchange rate.
- 4) Before you travel, you can secure travelers checks in US dollars.
- 5) ATM or banks will provide Cash Advances on major credit cards, but usually at a higher interest rate.

### ***Charlotte to Boone Shuttle***

The first shuttle from Charlotte to Boone (primarily for those arriving Friday) will leave the Charlotte Airport at approximately 11:00 AM, Saturday June 30<sup>th</sup>. The shuttle will run approximately every three hours until the final IBA delegate arrives (scheduled 9:00 pm). The Sunday shuttle time is not yet set (will be arranged directly).

### **Shuttle Meeting Place: IBA delegates should gather in the seating area near Domestic Baggage Collection Zone D**

This is located near the final exit for international arrivals (far end – domestic).

An IBA representative (Jessica Camp, recent Appalachian graduate) will be on site all day at Zone D. Basic amenities are present in this area, but are quite limited.

Unfortunately, waits of two or more hours are going to be required for some in Zone D, but you will be among friends and Jessica will help with anything you need and see you on your way to Boone.

### ***Arrival in Boone***

Check in for those staying on campus will be at the desk for **Newland Residence Hall** (12:00 noon until 12:00 midnight on Saturday and Sunday July 1<sup>st</sup>. At Newland Hall check in you will receive: 1) key to room, 2) meal card (breakfast & lunch in Welbourn Cafeteria), 3) conference package, 4) information about campus & town.

Shuttles from Charlotte will drop people at Newland Hall (or your hotel). Those driving to Boone should park in the **Stadium Parking Lot**, next to Newland Hall (parking hang-tag in your registration packet) – directions to Boone are given below.

Delegates staying off campus can register at the Welcome Picnic, Sunday July 1, 6:00 pm.

## ***Sunday Workshops***

Just pick the workshop that interest you and go to its meeting room.

Workshops will be in Rankin Science Building (home of the McKinney Museum).

- 9:00 – 5:00 Molecular Biology – Joanne Porter  
Room 023 – Rankin Science West
- 9:00 – 5:00 Freshwater Bryozoa – Tim Wood  
Morning Fieldtrip – meet at Newland Residence Hall Lobby  
Afternoon meet in Room 119 – Rankin Science South
- 9:00 – 12:30 Fenestrate Bryozoa – Ken McKinney & Patrick Wyse Jackson  
Room 118 – Rankin Science South
- 1:30 – 5:00 Cyclostome Bryozoa – Paul Taylor  
Room 118 – Rankin Science South
- 5:00 – 6:00 **Submission of Manuscripts** – Judy Winston & Marcus Key  
(McKinney Museum, Rankin Science South)
- 6:00 – 7:30 **Welcome – Bar-b-que Dinner** (for all registrants and guests)  
Courtyard between Rankin Science & Edwin Duncan Hall

## ***Manuscripts***

Manuscripts for the meeting's proceedings volume can be submitted to editors Judith Winston and Marcus Key Sunday July 1, 5:00-6:00 in The McKinney Geology Museum, Rankin Science Building (after workshops), or alternatively Monday July 2, 8:30-9:00 in the lobby of Belk Library, outside the lecture hall (before the first session).

Please submit 3-hard copies and one electronic version (on CD or USB-memory stick for transfer).

## ***Talks***

Talk presentations will be in standard Power Point format. Please load the file with your presentation onto the computer in the Lecture Hall (Room 114 Belk Library) 10-15 minutes prior to the beginning of your session. Our assistant, Zach Parker will be present to assist in the transfer of files.

## ***Posters***

Posters should be set up during the lunch break (12:00-1:30) on Tuesday, July 3. Push Pins will be available to mount posters on panels (1 m tall x 1.5 m wide). The poster session will begin at 3:30 on Tuesday. Posters will be left in the locked room Wednesday. Posters should be taken down Thursday (9:45) after a morning (second session).

## ***Miscellaneous***

- **Weather and Clothes;** Boone's climate is mild in the summer (55°-80°F; 13°-26°C). Rain showers are possible, a light jacket is advisable. Both field trips may be hot and humid (85°-95°F; 30°-35°C). Protection from the sun is recommended.
- **Internet Access:** Much of the Appalachian campus has wireless access. Simply open your browser and you will be asked to log in as a guest with your e-mail address. Many computers are available for public use in the University Library (where our session will be held).
- **Gym Access:** Individual access tickets for the University Recreation Facilities (Gym, Swimming, etc.) can be purchased for \$5.00 per visit These will only be available Monday Morning, prior to session at the IBA business desk (buy all you need for the week at that time).
- **Mailing Specimens:** Boxes (and custom forms) from the US Post that will ship 9 kg

international airmail for \$37.00 will be available to anyone wishing to ship specimens from field trips. You can pre-pay & print labels for "PriorityMailInternational" at: <http://www.usps.com/international/prioritymailinternational.htm>

### ***Guest Activities***

Registered guests can participate in the following trips at no additional charge (\$35 non-guests). Meet at **Lobby of Newland Hall** for each.

**Monday**, July 2 (9:00-4:00): Gem Mine Trip on the Blue Ridge Parkway. Includes visit to an emerald mine, a mineral and mining museum, and visits to galleries Lunch stop - purchased on own.

**Thursday**, July 5 (9:00-4:00): Guided nature hikes including Blue Ridge Parkway and Linville Falls. Lunch stop – purchased on own.

Registered guests can participate in the following trip at cost of \$35

**Friday**, July 6 (9:00-5:00): raft trip down a local, wild river.

Registration, Tuesday 3:30 at the Poster Session Reception (Grandfather Mt. Ballroom, Plemmons Union) (\$65 non-guests).

### ***Driving Directions to Boone***

**From Northeast or Southeast of Boone:** On Interstate 77 – locate exit for US-421. Take 421 toward Wilkesboro, NC (west). Continue on 421 to Boone. Follow 421 signs through Boone to JCT with 321 (Blowing Rock Road).

in Boone:

Turn Right on **Blowing Rock Road** (toward McDonalds).

Turn Left on Rivers Street (2<sup>nd</sup> light) into campus.

Turn Left on **Stadium Drive** (2<sup>nd</sup> light)

Turn Right into **Stadium parking lot** – Newland Hall at far right.

**From Northwest:** Exit I-75 at Corbin, KY on US 25E toward Middlesboro, KY.

Once through the Cumberland Gap Tunnel take the first exit onto US 58.

Follow US 58 through Jonesville, VA to Gates City, VA.

After Gates City Follow US 23 south to Kingsport where it turns into I-181.

Turn North on I-181 toward Bristol. see **BRISTOL directions** below.

<Alternatively - - From I-75 at Corbin, KY, follow I-75 south to Knoxville, then I-81 north to Bristol, TN. see **BRISTOL directions** below.

**From Southwest:** From Knoxville, TN, follow I-81 north to Bristol, TN.

**From BRISTOL, TN:** Follow I-81 north to Abingdon, VA. (~ 1 hr from Boone)

Take Exit 19 on US 58 toward Damascus, VA.

On the other side of Damascus, turn right on US 91 toward Mountain City, TN

Carefully follow the scenic US 91 to Mt. City, TN.

In Mt. City Turn EAST (left) on US 421 toward Boone, NC

in Boone:

Follow US 421 as it turns into King Street of downtown Boone.

Turn Right on **Depot Street** (2<sup>nd</sup> light in town).

[Depot Street turns into Bodenheimer Driver – **Broyhill Inn** at the top]

Turn Left on **Rivers Street** (1<sup>st</sup> light)

Turn Right on **Stadium Drive** (2<sup>nd</sup> light)

Turn Right into **Stadium parking lot** – Newland Residence Hall in far right.

### ***Parking***

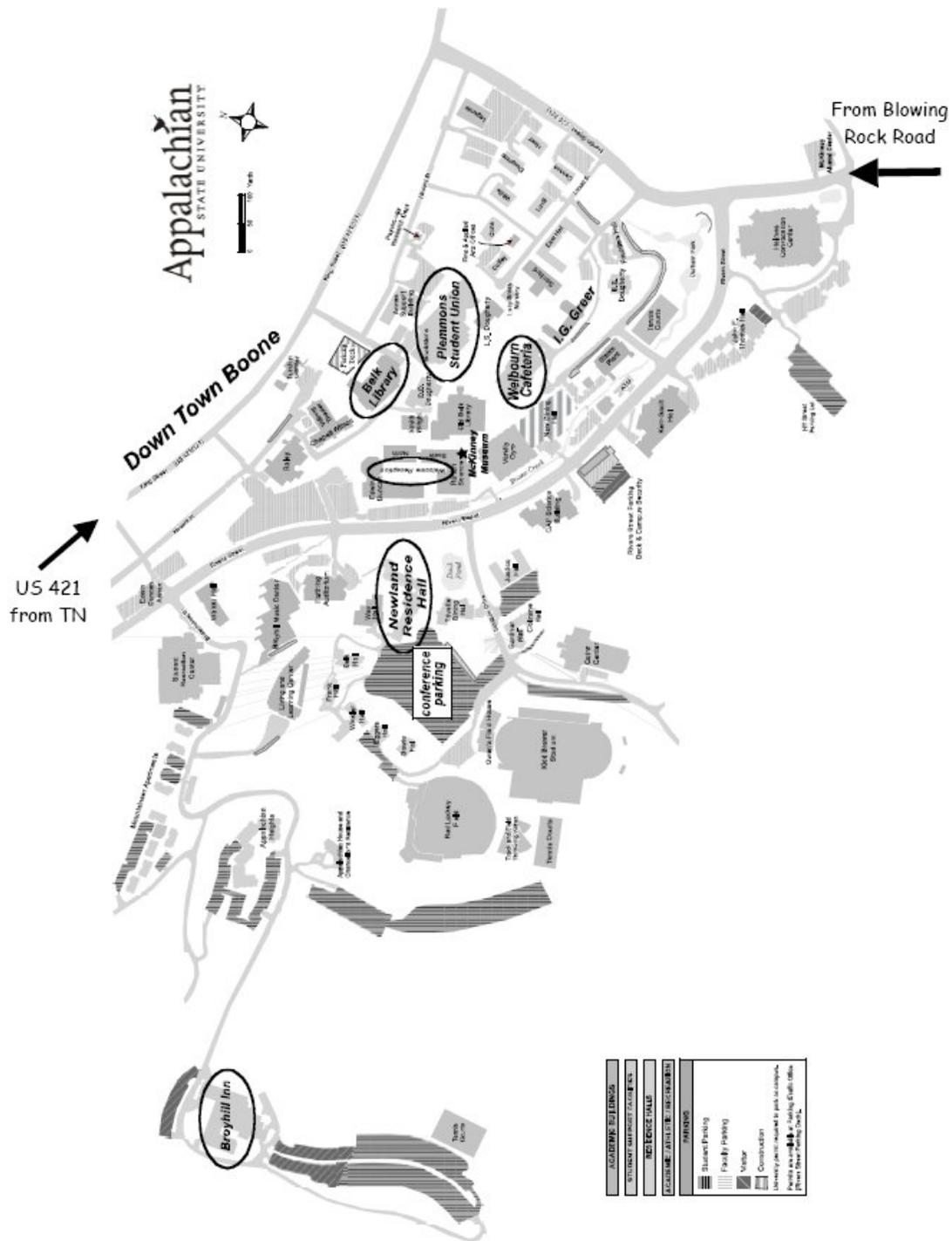
Those driving to Boone will have a parking hang tag provided in their registration materials. Parking is only good for the **Stadium Parking Lot**. If you need other arrangements please contact Steve Hageman.

Those staying in the Broyhill Inn or off campus will also receive a parking hang tag for the Stadium Lot, which they can use during the day (or any time).

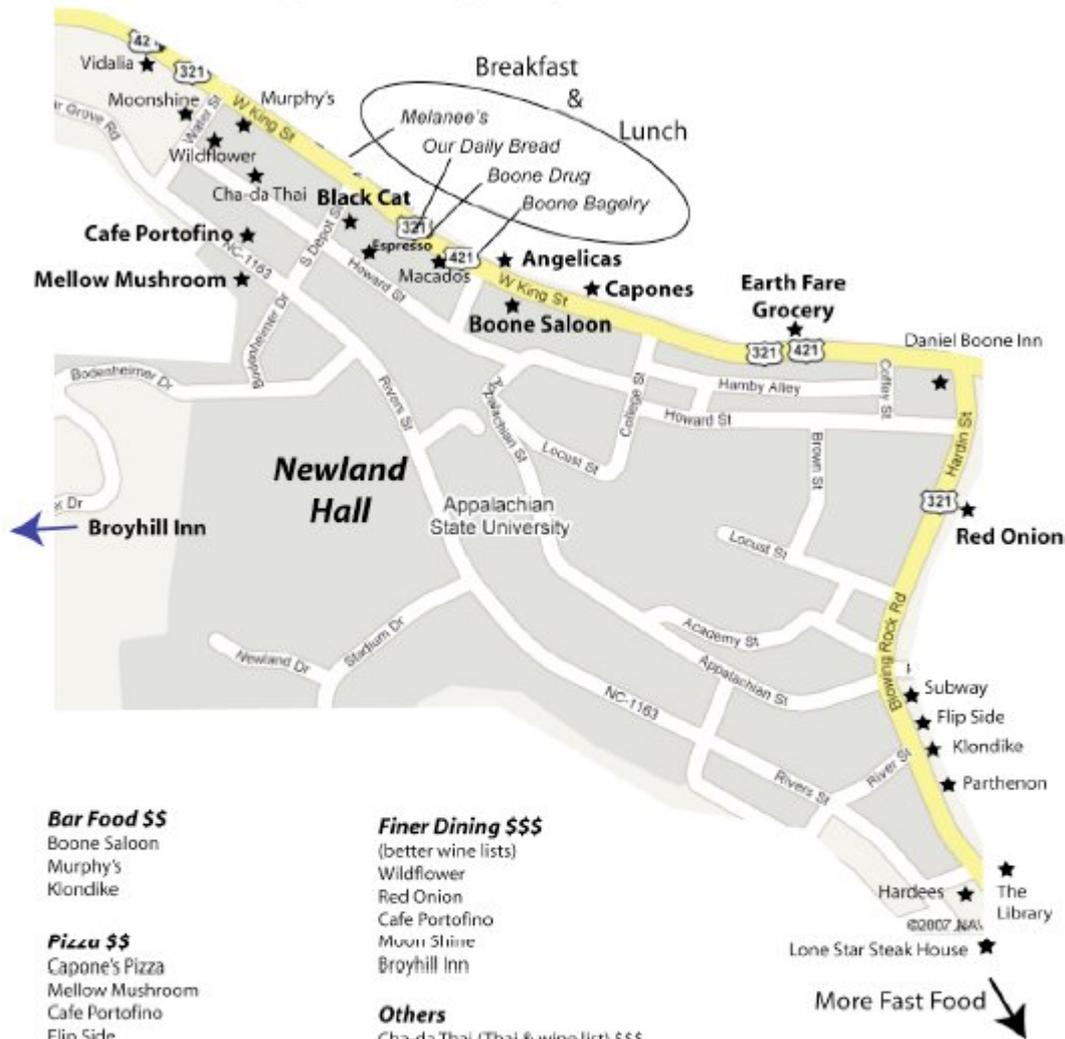
**Additional Maps & Suggestions**

<http://www.web.appstate.edu/maps>

Drivers are discouraged from taking other routes from Interstates to Boone. Even “logical routes” suggested by road atlases and web-site maps can be old, narrow, dangerous mountain roads adding 1-2 hours to your travel time.



## Suggested Evening Dining in Down Town Boone



### Bar Food \$\$

Boone Saloon  
Murphy's  
Klondike

### Pizza \$\$

Capone's Pizza  
Mellow Mushroom  
Cafe Portofino  
Flip Side

### Vegetarian specials \$\$

Angelica's  
Moon Shine  
Black Cat Burrito  
Cafe Portofino  
(most others have some veg.)

### Finer Dining \$\$\$

(better wine lists)  
Wildflower  
Red Onion  
Cafe Portofino  
Moon Shine  
Broyhill Inn

### Others

Cha-da Thai (Thai & wine list) \$\$\$  
Parthenon (Greek) \$\$  
Macado's (Sandwiches) \$\$  
Vidalia (Southern style) \$\$  
Daniel Boone (Southern-Family style) \$\$  
The Library (waitresses in costume) \$\$  
Lone Star Steak House (Beef) \$\$\$

### Budget \$

Subway Sandwich  
Hardees  
Campus Cafeterias  
Follow "More Fast Food" to the south

\$ 5.00 - 7.00  
\$\$ 7.00 - 15.00  
\$\$\$ 15.00 - 25.00

Most restaurants serve beer & wine.  
No restaurants in Boone serve spirits or mixed drinks.

**Please add a 15% tip (gratuity) for restaurants with table service.**  
This is the waiter's primary income and is expected.



## Recent Publications

The following list includes works either published since the previous issue of the *IBA Bulletin* or else missed by previous issues. As always, members are encouraged to support future compilations by continuing to send complete citations to the IBA secretary at any time. Reprints will be gratefully received by the IBA archivist, Mary Spencer Jones.

- Anderson, C. M. and M. G. Haygood (2007). Alpha-proteobacterial symbionts of marine bryozoans in the genus *Watersipora*. *Applied and Environmental Microbiology* 73(1): 303-311.
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