

## **A tribute to Isabella Aiona Abbott on the occasion of her 85<sup>th</sup> birthday. Happy Birthday Izzie!**

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Fig. 1. Izzie in Virginia for the wedding of Jim's son, Jesse & Alix Norris on 29 May 2004. Photo by: Chip Clark (National Museum of Natural History).

This edition of *Cryptogamie, Algologie* is dedicated to Isabella Aiona Abbott, in celebration of her 85<sup>th</sup> birthday. Born in Hana, Maui, of Chinese-Hawaiian parents, "Izzie" (to her many friends and colleagues) went to the University of Hawaii where she developed an interest in marine algae. After graduation in 1941, she began her professional career at the University of Michigan with William Randolph Taylor, completing her B.Sc. in 1942. From there she went to the University of California, Berkeley, and completed her Ph.D. with George F. Papefuss in 1950. In the late 1950s she received a Lectureship and Research Associate position at Stanford University, where she went on to become a full Professor of Biological Sciences in 1972. Living in Pacific Grove on the beautiful Monterey Peninsula, she and her husband Don (also a Stanford Professor) conducted their marine biological research, she on algae and he on invertebrates, and taught classes at Hopkins Marine Station of Stanford. Here she focused on the taxonomy and floristics of the marine algae of the

Monterey Peninsula. Resulting studies led to the publication of a *Supplement* to Gilbert M. Smith's "Marine Algae of the Monterey Peninsula" (Hollenberg & Abbott, 1966; Smith, Hollenberg & Abbott, 1969), and from there to what is possibly Izzie's most well-known work, the landmark "Marine Algae of California" (Abbott & Hollenberg, 1976).

It was during the Monterey years, in 1970, that JNN as a beginning student first met Izzie, and she invited him to study algae in her lab. As always, she was very generous with her time and knowledge and was most encouraging. She went on to serve as research advisor and graduate committee member for both his M.A. and Ph.D. research, and has remained a close friend. Although living in California, she also maintained an interest in tropical marine algae, particularly the Liagoraceae. Izzie had a strong influence on many students of marine phycology, working with many as professor and mentor, including serving as research advisor and graduate committee member to several who are now well established phycologists.

In 1982, Izzie and Don (both as Professor Emerita at Stanford) returned to their beloved Hawaii. Izzie, as the "G.P. Wilder Professor of Botany" at the

University of Hawaii at Manoa, embarked on yet other ambitious projects, this time taxonomic and floristic accounts of the marine algae of the Hawaiian Islands, as well as studies on the Hawaiian uses and ethnobotany of seaweeds and plants. The Hawaiian marine flora was published in two parts, the first (Abbott, 1999) dealing with the red algae, the second (Abbott & Huisman, 2004) with the green and brown algae. During this period Izzie was also the instigator of a series of nine workshops dealing with the taxonomy of economic seaweeds. The first of these was held in Guam in 1984, the most recent (the ninth) in Hilo, Hawaii Island, in 2002. The proceedings of all of these workshops have been published as a series of books. In Honolulu, Oahu Island, she also began a strong association with the Bernice Pauahi Museum in 1987, as a Research Botanist and also serving on the museum's Board of Directors.

With a professional career spanning over 60 years and over 189 publications including nine books, and numerous awards, one might reasonably expect Izzie to sit back and rest on her laurels. To this day, however, she remains very active, a dedicated and hard-working phycologist, spending most days in the office and laboratory. Rather than slowing down with age, Izzie has increased her research output to the extent that the last few years have been some of the most productive of her career. One group of algae that have always been close to Izzie's heart is the Liagoraceae, and it was a joint interest in these red algae that brought the first author of this tribute to Hawai'i. Izzie has referred to *Liagora* and company as members of the "gooeyales" to her friends and students, and also as her "pets" (Abbott & McDermid, 2002). Beginning in 2002 it was a pleasure for JMH to be able to work with her on these algae, which are obviously one of her ongoing passions. The first paper of Izzie's career was on *Liagora* in Hawaii (Abbott, 1945) and after nearly 60 years of research we were still able to pull new species from the Hawaiian flora. For example, it was with great delight that we were able to name a new species of *Liagora* after Izzie's late husband, her beloved Donald. This honor was not without justification, as Donald was the first to collect specimens of this species from O'ahu, in 1945!

In a career filled with highlights, a few deserve special mention. Izzie was the first Hawaiian to be awarded a Ph. D. She has received numerous awards in recognition of her contributions, not only to phycology but to her second great interest, ethnobotany. Some of these include: the *Distinguished Ethnobotanist* award given by the Society of Economic Botany (2001), the *ARCS Scientist of the Year* (2000), the prestigious *G.M. Smith Medal* awarded by the US National Academy of Sciences (1997), the Botanical Society of America's *Darbaker Prize* (1969), *Merit Award of The Phycological Society of America* (1995), and the *Ford Foundation's Award for Research in China* (1987). Most recently, the Phycological Society of America bestowed its highest honor on Izzie for her lifetime achievements in phycology – the *PSA Award of Excellence* (2003).

There is no doubt that Izzie holds a special place in phycology, but for many of us she also holds a special place in our hearts. Anyone who has met Izzie cannot help but be impressed by her warmth, hospitality, and her nurturing spirit. Izzie is also fondly remembered for her unique way when dealing with people. Mike Foster recalls: "Izzie always leaves me thinking long after I see her – a remark at the Seaweed Symposium in Japan: "I won't talk to you much because there are so many people here I don't see very often." A comment while sorting through a stack of my unknowns: "This feels like a *Grateloupia*" (aha, the real keys to the red algae). She is refreshingly frank in this day of the professional hustle, and her knowledge and insights enrich but also humble – mentoring at its best!" Isabel Meneses also has fond memories: "Thanks for the opportunity to include

Chère Dr Abbott et chère Izzie,

Fée des Algues, inlassable détective de la Systématique, vous avez continuellement accumulé et perfectionné sans relâche une énorme masse de connaissances toujours grandissante. Que de résultats obtenus dans ce monde toujours plein de questions!

Vous lire est toujours un bonheur et nous vous en sommes profondément reconnaissants.

Jacqueline Cabioch

Roscoff, le 20 mai 2004

From the Canaries, which are also volcanic islands and a paradise for the study of the marine algae, I send to the Hawaiian Islands my congratulations to Prof. Abbott to honour her 85th birthday. Izzie Abbott is highly esteemed by her colleagues around the world. Best wishes

Julio Afonso-Carillo

Aloha Izzie

It is a great pleasure to congratulate you on your 85th birthday, and to wish you well for the years to come. The quantity and sheer quality of your publications; the many results of your teaching commitments; and your passion for your family and Hawaiian homeland are aspects of your life that I have been privileged to share in recent years.

Happy Birthday Izzie, and very best wishes  
Yvonne Chamberlain

Fig. 2. Salutations: Jacqueline Cabioch, Julio Afonso-Carillo, Yvonne Chamberlain.

With very best wishes from Bruno de REVIERS



DEAR IZZIE -

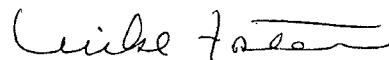
APRIL 25, 2004

IT SEEMS LIKE YESTERDAY WHEN YOU INTRODUCED ME TO THE WONDERS OF SEAWEDS AND THEIR LITTLE RELATIVES THE "GATGORE" — SPRING 1964! THE CONTINUED CYSTOCARPUS OF OUR RELATIONSHIP, AS PROFESSIONALS AND FRIENDS, HAS BEEN A VERY IMPORTANT PART OF MY LIFE.

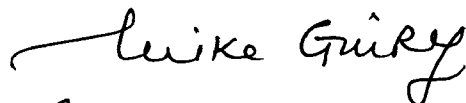
SO HERE WE ARE NOW, PROFESSORS OF HEATHER'S COMMITTEE! THE PRIDE AND WARMTH YOU MUST FEEL WHEN LOOKING BACK ON YOUR LIFE. I AM HONORED TO HAVE BEEN A SMALL PART OF IT, AND LOOK FORWARD TO MANY MORE YEARS OF OUR "TALKING STUFF."

HAPPY 85TH!

YOUR STUDENT, COLLEAGUE AND FRIEND



To Izzie, with every best wish:  
I shall never forget your kindnesses to me as a student in London.



11 May, 2004

Congratulations Izzie on your 59<sup>th</sup> year as a publishing scholar in psychology. What a record. Major floods for two biogeographic provinces and papers on every important marine algal group. Your life and work have been an inspiration to us all.

With appreciation,  
Max H. Hommersand

To my favorite physiological matriarch.

May the tides always be low for you,  
may the weeds always wash up on your beach,  
may these algae always be fertile,  
and may their names always spring to mind.

Warmest wishes,

Alan MILLAR

Dear Izzie -

Do you remember the day when an aspiring young psychologist in navy uniform met a blindered soul who would become one of the world's foremost practitioners of the profession? If not, I forgive you, as this momentous occasion took place 60 years ago! Enough water has flowed under the bridge to fill Kurokita Bays!

Love from Paul (Silva)

Fig. 4. Salutations: Max Hommersand, Alan Millar, Paul Silva.

To Izzie on her 85th

Congratulations on a lifetime of achievement. We first failed to meet in Pacific Grove in 1952 when you were otherwise occupied producing a daughter, but we have enjoyed our contacts and visits ever since. Your outstanding efforts in stimulating research on central Pacific algae, as well as the west coast of the U.S.A., have so enriched phycological knowledge. We are all most grateful and look forward to your years to come.

Bryan (and Alleyne) Womersley

Dear Dr. Abbott,

Kindly accept my heartfelt thanks for the friendship shown to me for 40 years. I hope this friendly relationship continue much longer.

Tadao Yoshida

Izzie:

Happy birthday greetings from Guam. Salutations to a great mentor, and to a dedicated and most productive phycologist and ethnobotanist.

Roy T. Tsuda

Fig. 5. Salutations: Bryan (and Alleyne) Womersley, Tadao Yoshida, Roy Tsuda.

Izzie,  
E hō'īki mā ana ka  
lā'au a ke kia manu.  
FOLKS AT UH WILL NEVER BE  
ABLE TO  
E ho'opiha i ka mā kālua  
i hakahaka.  
Aloha,  
Gerry Kraft  
(He wahi Limu pae)

Dear Izzie, 17. iv. 2004  
Congratulations on your 85<sup>th</sup> birthday!  
Where would the Hawaiian flora be  
without you? Your continuing productivity  
and seven-day work week are an  
inspiration to all.  
Sincerely, Craig W Schneider

05-05 2004

Dear Izzie,

Thinking back on my time at Berkeley (1966-1994) I remember with fondness the collecting trips to Monterey with Frikkie and the visits with you and Don at Hopkins Marine Station. Those were wonderful years and it was always exciting finding so many algae along the coast that were new to me. Too bad we can't crank back the clock 40 years!

Glad you are still enjoying phycology as much today!

John West

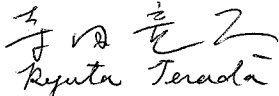
Fig. 6. Salutations: Gerry Kraft, Craig Schneider, John West.

Happy Birthday, Dr. Isabella A. Abbott!

On the behalf of phycologists around the world,  
I am honored to celebrate your birthday.

From the bottom of our hearts,  
we wish you many more years of  
good health and happiness.

Omedetou Gozaimasu!

Sincerely yours,   
Ryuta Terada  
Kagoshima University, Japan

Dear Izzie,

Warmest greetings on the occasion of  
your 85<sup>th</sup> birthday, and continued  
success in your impressive and productive  
psychological career that already has  
spanned well over half a century.

Bill Woelkerling

6 May 2004

Dear Izzie,  
Congratulations on this  
significant milestone.  
Michael Wynne

Fig. 7. Salutations: Ryuta Terada, Bill Woelkerling, Michael Wynne.



something about Izzie. What I remember most was not when I was a graduate student at the University of Hawaii, but from a time when I was very, very young and had not been exposed to many professional women scientists. Izzie (then of course, “Dr. Abbott” to me) had come to Santiago, Chile, and gave a summer course on algae. Afterwards she stayed on to work with Dr. Bernabe Santelices on the marine flora of Easter Island. We were in the laboratory of the Zoology Department (the building has long since disappeared) of the Universidad Católica, and she was using a microscope next to the one I was using. This was an extremely old building, with wooden, creaky floors, very high ceilings and legends of disagreeable ghosts wandering around at night. The algal material from Easter Island was kept in a Formalin-solution inside glass jars with screw-type lids, which she had a hard time opening. Seeing her struggling with the lid of one of these jars, I offered my help. Reaching for the jar, it slipped and hit the floor, breaking into hundreds of pieces, a bath of formaldehyde and ... a freed sample of some unknown seaweed! Izzie carefully recovered the alga from the center of the scene. I learned that she not only cared for the algae, but her students. She impressed me that she knew very clearly what she wanted to do and believed she could accomplish it. In working with Izzie, I learned more than just about algae. What meant the most to me, was her providing the encouragement that I too could do it myself.”

This edition of *Cryptogamie, Algologie* was conceived by the two of us and produced with JNN acting as guest “co-editor”, and we acknowledge the usually uncredited input of our associate editors. It includes contributed papers dedicated to Izzie, and also personal greetings from the many phycologists who were not in a position to contribute a paper (see Figs 2-7). Izzie’s popularity in the physiological community saw an unprecedented response to our call for papers, with the result that this tribute will be continued into the next edition of *Cryptogamie, Algologie*.

On behalf of the physiological community, we send Izzie our warmest wishes as she enters her 86<sup>th</sup> year.

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**Eponymy**

*Generic names based on surname "Abbott" and given name "Isabella"*

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- Abbottia* Perestenko, in: PERESTENKO L.P., 1977 — *Botaničeskij Žurnal SSSR* 62(3): 398. [non *Abbottia* F. von Mueller 1875].
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- Izziella* Doty, in: DOTY M.S., 1978 — *Izziella abbottae*, a new genus and species among the gelatinous Rhodophyta. *Phycologia* 17: 33-39.
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- Neoabbottia* Perestenko, in: PERESTENKO L.P., 1982 — *Novosti Sistematiki Nizšh Rastenji (Akademija Nauk SSSR, Botaničeskij Institut im. V.L. Komarova. Novitates Systematicae Plantarum non Vascularium)* 19: 30 [published as a substitute name for *Abbotia* Perestenko 1975]

*Species names based on surname "Abbott" and given name "Isabella"*

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- Izziella abbottiae* ["*abbottae*"] Doty, in: DOTY M.S., 1978 — *Izziella abbottae*, a new genus and species among the gelatinous Rhodophyta. *Phycologia* 17: 33-39.
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- Dermonema abbottiae* Afaq-Husain, Nizamuddin et Shameel, in: AFAQ-HUSAIN S., NIZAMUDDIN M. & SHAMEEL M., 1991 — The structure and reproduction of a new taxon *Dermonema abbottiae* (Nemaliales-Rhodophyta) from the coast of Pakistan. *Pakistan Journal of Scientific and Industrial Research* 34: 75-82.
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*Dudresnaya abbotiae* Afonso-Carillo *et* Tabares, *in*: AFONSO-CARILLO J. & TABARES N., 2004 — *Dudresnaya abbotiae* sp. nov. (Dumontiaceae) a new gelatinous ephemeral spring annual red alga from the Canary Islands. *Cryptogamie, Algologie* 25: 275-290.

### **Imminent Eponymy**

Note: these names are proposed in papers accepted for publication in the next edition of *Cryptogamie, Algologie*.

*Taonia abbotiae* D.S.Littler *et* M.M.Littler, *in*: LITTLER D.S. & LITTLER M.M., 2004 — *Taonia abbotiae* sp. nov. (Dictyotales, Phaeophyta) from the tropical western Atlantic. *Cryptogamie, Algologie* 25.

*Dasya abbotiana* Ballantine *et* Aponte *in*: BALLANTINE D.L. & APONTE N.E., 2004 — *Dasya abbotiana* sp. nov. (Dasyaceae, Rhodophyta) from Puerto Rico, Caribbean Sea. *Cryptogamie, Algologie* 25.

*Gracilaria flabelliformis* subsp. *aionae* Gurgel, Fredericq *et* J. Norris, and

*Gracilaria isabellae* Gurgel, Fredericq *et* J. Norris *in*: GURGEL C.F.D, FREDERICQ S. & NORRIS J.N., 2004 — *Gracilaria flabelliformis* and *G. apiculata* (Gracilariaceae, Rhodophyta): restoring old names for common tropical western Atlantic species, including the recognition of three new subspecies, and a replacement name for “*G. lacinulata*”. *Cryptogamie, Algologie* 25.