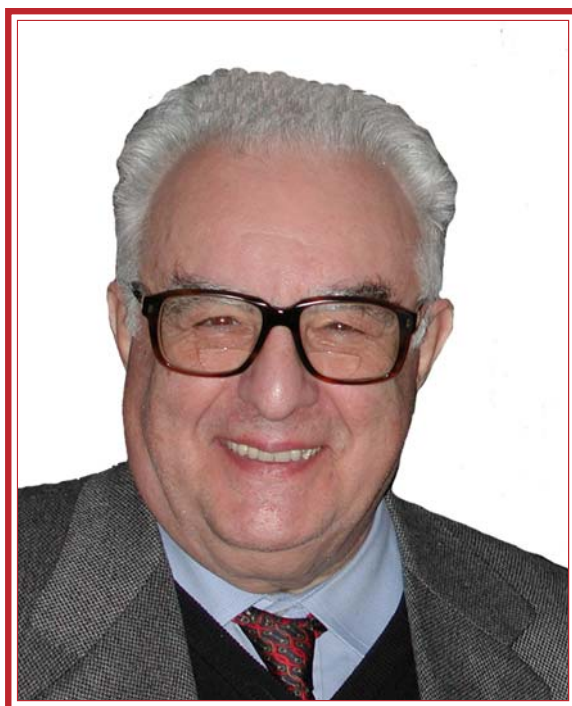


ENRICO CLEMENTI



*A man of many talents, many interests,
and many more friends*

The Organizers of the 2005 Sanibel Symposium are pleased to dedicate the Friday sessions and dinner to Enrico Clementi.

Session
Plenary XV
Jan Linderberg, Chair
Michel Dupuis
Paul S. Bagus
Giorgina Corongiu

Plenary XVI
Kersti G. Hermansson, Chair
Alain Strich
Antonio Rizzo
Kwang Soo Kim

Plenary XVII
Michael Kasha, Chair
William A. Lester, Jr.
Jean-Marie André
Enrico Clementi

Cocktails on the Lawn at 7:00 PM

Seafood Buffet at 8:00 PM

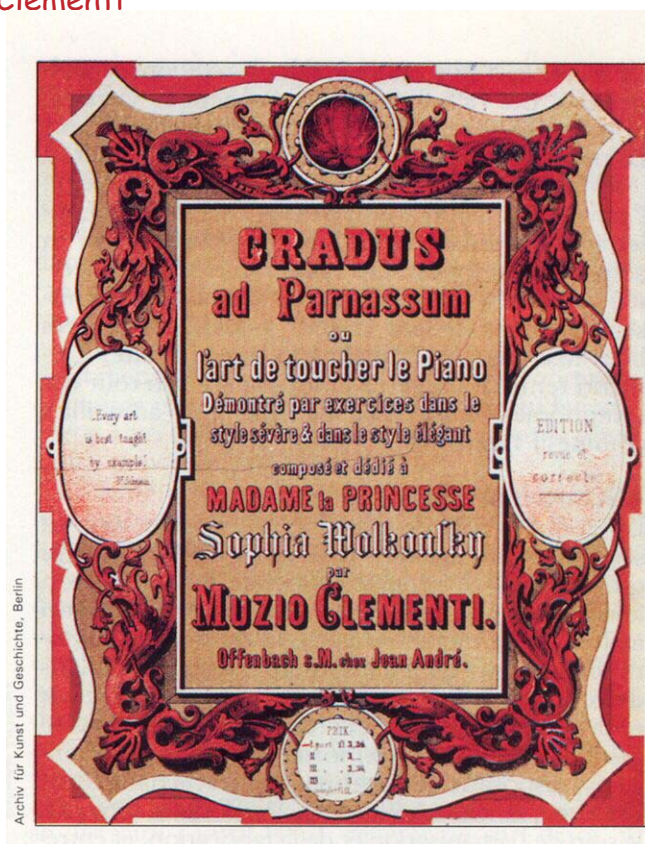
Michael Kasha, after dinner speaker

Open microphone for all who wish to say
a few words about Enrico

Private showing of Enrico's paintings

Music of Muzio Clementi
performed by
Jean-Marie André
and
Frank Harris

Our thanks to all those who contributed
pictures and anecdotes,
without which this booklet could never
have been compiled.



Booklet Designed and Produced
by Judy Parker

Enrico Clementi was born on November 19, 1931 in Cembra, Italy. He received a doctoral degree from the University of Pavia, Italy. He was the Founder and Manager of computational chemistry departments at Large Scale Scientific Computations (IBM Research, San José, California, 1960-72), Calcolo Chimico (Istituto Donegani, Montedison, Novara, Italy, 1974-78), Scientific and Engineering Computations (IBM Poughkeepsie and IBM Kingston, New York, 1979-91), Chimica Computazionale (CRS4, Cagliari, 1991-94) and Laboratoire METECC (University L. Pasteur, Strasbourg, 1992-Present). He has been a Lecturer at the Edward Herbert Boomer Memorial (Alberta, 1980), and the Bourke Lecturer (RSC-Faraday Society, 1982). He was a Distinguished Research Professor at Rensselaer Polytechnic Institute, Troy, New York (1984). He is an IBM Fellow (1969), a Fellow of the American Physical Society (1985), a Member of the Accademia degli Agiati (1972), a Member of the IBM Academy of Technology (1989). He was President of the International Society of Quantum Biology (1981). He has received Gold Medals from TERESIANA (University of Pavia, 1984) and DIRAC (World Association of Theoretical Organic Chemistry, 1987). He is the Founder and President of the "Club Européen MOTECC", and is a Doctor Honoris Causae, University of Namur (1999). He received an Alexander von Humboldt Award in 2001.

Enrico is the author of over 400 scientific papers. He is the Editor of the MOTECC and METECC series. He is the author of "Tables of Atomic Functions" IBM J Research and Development Special Supplement 9,2, 1965. He is the Author, with C. Roetti, of "Tables of Roothaan-Hartree-Fock Wavefunctions", Special Issue in "Atomic Data and Nuclear Data Tables", Academic Press, New York, 1974.

Enrico is well-known for his pioneering contributions in numerous fields. These include:

- *Ab initio* quantum chemistry applications to large molecular systems and coding of Hartree-Fock atomic and molecular programs (1961-68);
- First systematic estimate of correlation energy for atoms and molecules (1963);
- Density functional methods for atoms and molecules;
- Atomic and molecular relativistic correction (early 1960s to present);
- Monte Carlo and Molecular dynamics for biological solutions with *ab initio* potentials for liquid water and solutions (with G. Corongui);
- Combined use of Newton and Schrödinger equations in classical molecular dynamics (1978);
- Free distribution of atomic, molecular, Monte Carlo and Molecular Dynamics codes (1983);
- Parallel architecture and construction of LCAP1, LCAP2 and LCAP-3090 hardware and relative system software with applications to quantum chemistry and molecular dynamics.

Enrico has been a frequent contributor to the Sanibel Symposia. He attended his first Symposium in 1967, and this year marks his fourteenth Symposium. All who have met him have enjoyed interacting with him, both scientifically and personally. As Per-Olov Löwdin, the founder of the Quantum Theory Project and the Sanibel Symposium wrote:

Enrico Clementi is a scientist with many fascinating sides to his personality, and his friends can tell many stories about his warmth, his self-irony and humor, his concern for the people working with him, his originality and ingenuity, and his love for music and culture—particularly the Italian.

Enrico is currently a second-year art student in the "Accademia delle Belle Arti" in Como, Italy.

Jeffrey L. Krause

When I got to meet [Enrico] in 1990 he was in a very "delicate" moment of his life, mostly traveling back and forth (which is something not unusual), involved in discussions with officials here and there in view of another big "change" in his life (from IBM to CRS4). It was not easy to pin him down and have sufficient time to "build up" anecdotes on him. His spectacular typical north-Italian cakes come to my mind (he is very skilled in cooking, as far as I remember, especially cakes). I can tell you that a moment I cannot forget was when I landed in Kingston and after a few days, when he finally could settle for a few hours in his office, he took me for a "tour" of his "computa-



tional facilities" at IBM. And, in awe, I realized he was probably showing to me as much computer power as my entire COUNTRY could boast at the time. At least, that was what it sounded and looked to me. Finally, I can tell you that staying in Enrico's department (and I was there for exactly one year) I believe I met most of the big names and personalities of my (and his) field of research, all of them coming through the corridors of IBM Kingston. It was a fundamental experience of my life, probably the most important for the development of an independent career made of exchanges and confrontation with the whole international community and not limited to the little backyard.

CIAO

Antonio Rizzo



Sanibel 1983

Colin Thomson, Janos Ladik, Maureen Thomson, Enrico Clementi
[Photo by John Ball]

Enrico went to paris, rented a mercedes, wrecked it, returned, rented another one, and wrecked that one too. I can't recall if they gave him a third after that or not...

Best Regards,
Rod Bartlett



1970 Sanibel Symposium
Hugh Kelly, Enrico Clementi, and
Per-Olov Löwdin
[Photo by Nelson H.F. Beebe]

Enrico Clementi:
"You have to solve a
problem, right? If you have
to become a mathematician or
an engineer to solve the problem,
so what? The last thing the piece of
paper that is a Ph.D. should tell you is
what field you're in; it should tell you only
that you can learn. You have to pull up
your sleeves and do something real."

(THINK, no. 4, 1985, p. 26)

1968, San Jose
Christian et Lucette Salez, their
son, Eric, and Enrico
[Photo from J.M. André]



As he talks about his
work with growing en-
thusiasm, his Italian accent
becomes progressively more
pronounced.

'It can be worse,' he quips"
(THINK, no. 4, 1985)

"A round-
faced, round
figured man
wrapped in a loosely
fitting black sweater,
Enrico Clementi, one of
IBM's most distin-
guished scientists,
resembles a cheerful
panda as he settles
into his office at
the company's
Kingston, N.Y.
lab.



2002 Sanibel Symposium
Tom Collins, Jean-Marie André and Enrico
[Photo from J.M. André]

"I cannot refrain from pinpointing the [Löwdin quote in the biography] and from making the relation to another CLEMENTI. I am thinking of the famous musician and pianist, Muzio CLEMENTI, who was born in Rome in 1752 and died in Evesham, Worcestershire, in 1832. Muzio and Enrico Clementi have been never resting travelers. Every debutant pianist has always played some of Muzio's sonatas. Muzio is well known for his whole piano work and is known as 'father of the piano.'

I can safely say that Enrico is the father of 'Modern Computational Techniques in Chemistry.' The first time that I visited the most beautiful residence of Enrico in Los Gatos I had the unique chance to listen to one of the very rare recordings of Muzio CLEMENTI's piano concerto. My aim is not to give an introduction of Muzio CLEMENTI's contribution, but it is striking to note that Muzio CLEMENTI is the composer of Gradus Ad Parnassum, one set of difficult exercises enabling the pianist to overcome the main problems.



April 2004, Atlanta
Jean-Luc and Monique Brédas, Jean-Marie and Marie-Claude André and Enrico
[Photo from J.M. André]



2002 Sanibel Symposium
Enrico and Jean-Marie André
[Photo from J.M. André]

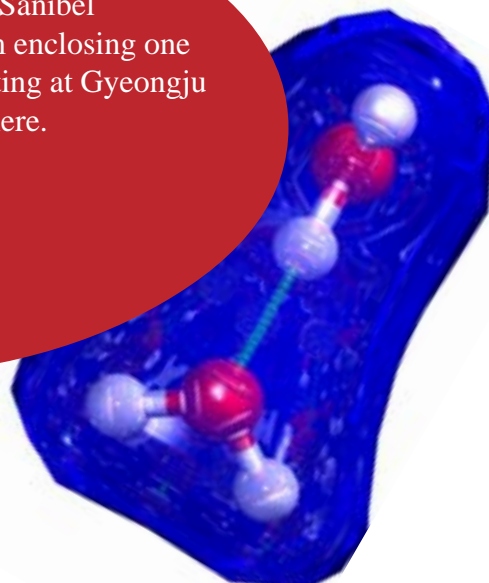
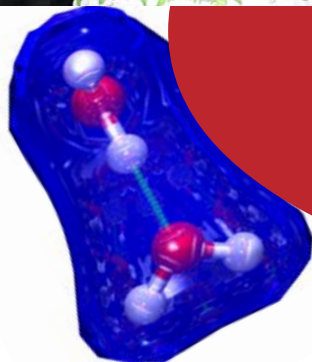
From this point of view, there is a clear parallel with Enrico CLEMENTI's career and his progressive evolution, his progressive 'gradus ad parnassum' from atoms, molecules, and molecular interactions to his rich concept of the 'global simulation method.'"

Jean-Marie André
International Journal of Quantum Chemistry,
45, 507-510 (1993)



For the celebration of Clementi in Sanibel meeting,... I am enclosing one (in TACC meeting at Gyeongju in Feb, 2004) here.

With Best Regards,
Kwang S. Kim



Unfortunately I have to change work just in the time of the conference, therefore I regret not to be able to participate. I would like to send my best greetings to Enrico Clementi and I

hope to see him in another time. I wish you and the other participants a nice conference.

Very recently I visited Clementi at the lake of Como and I append some pictures we did make there.

With best wishes,

Detlef Hofmann



I do have
some very stories
providing very deep
perspective on a person
who is not just a great and
outstanding scientist but ro-
mantic with science and a men-
tor par excellence to his collabo-
rators.

I worked with him between 1987-
1990 and continue to hold him as
my best teacher and mentor. I would
like to share my stories about him
in gratitude and in the form of a
prayer of thanks to the man who
has taught and helped me in
the art of research.

Warm Regards

Subhas



Kimio Ohno and Enrico, Stresa
[Photo from J.M. André]

1983 - Poughkeepsie
Family party with Enrico's laboratory at J.-M. André's home
[Photo from J.M. André]



2002 Sanibel Symposium
 Enrico Clementi and
 Benoît Champagne
 [Photo from J.M. André]



1992, Namur
 SCF Meeting for the 60th
 Birthday of Enrico
 [Photo from J.M. André]



2004, Georgia Tech Conference
 for J.M. André's 60th Birthday
 [Photo from J.M. André]

He was invited with Gina, it was a beautiful day of summer 25 years ago on a wonderful alpine lake and a perfect dinner was served; I wanted to [sit] with them, as with any other guest, for a while, with a big difference: we kept talking for almost two hours about theoretical chemistry, research and research plans: my husband told me that he understood that day what work addiction means and what would have been his life with a scientist.



Best regards

Graziella Ranghino



I can not make it to the conference.
Please send my love to Gina and Enrico.

I worked in Enrico's group 1981-83 in
Poughkeepsie NY.

It was my first time in America, in non-
American Italian/ International atmo-

sphere. The pictures are from a party in Enrico's home, none of my many
American managers ever did
anything equivalent, and from
my wedding here Enrico and
Gina attended.

Very Best Wishes,
Peter Habitz



1983,
Poukeepsie

Enrico Clementi



Gina Corongiu

I first met Enrico when he came to St. Andrews to give a Royal Society of Chemistry lecture and receive a medal, the name of which escapes me now.

"You must come to IBM for a few months - it will be good experience," he said.



2003, Como
Enrico cooking in his apartment
[Photo from J.-M. André]

Not being much of a traveler and not having much money, I hoped the whole thing would be forgotten. Before I knew it, I was flying over Ireland, jettisoning fuel so we could land for the plane to be checked for a bomb. I arrived in Poughkeepsie twelve hours late in the middle of the night and after a phone call Enrico was there to pick me up.

He took me back to his house and poured me the most enormous whiskey: "You drink and in the morning you will be fine no jet-lag, nothing." Gosh! But he was absolutely right! right!

I stayed with Enrico and Gina (poor Gina - another mouth to feed and clean up after) until I got my first pay cheque.

Talking to Enrico is a wonderful experience: the enthusiasm, the vision, the stories!

He is a truly magnificent man or person and Gina comes in at a very close second - but only because it is Enrico's day. If it wasn't, then Gina would be first, of course.



This is a photo of Prof. Vercauteren from Namur in Belgium and Dr Carravetta from Pisa in Italy eating the Boss's Apple Strudel. Prof. Clementi's Apple Strudel takes some beating!

Best wishes, John Ball.



Enrico and John Ball
[Photo from J. Ball]



2004, Gyeongju Meeting
Enrico and R.A. Marcus
[Photo from J.-M. André]



Christmas 1984
Enrico and
Kersti Hermansson
[Photo by John Ball]

The first time I met Prof. Clementi was at the 2002 Sanibel Symposium, which I attended with my then-significant-other, Amanda Godwin. Prof. Öhrn insisted that I meet Prof. Clementi, and introduced us at the Wednesday reception. After shaking hands and exchanging the common introductory phrases, Prof. Clementi said to me "I have noticed you. I have noticed your work. But more importantly, I have noticed your girl."



[Photo QTP Archives]

So much for Bucky-Balls.....

Ryan Chancey

With remarkably good luck, I
have found the original photograph that
Megumu Yoshimine sent to me in 1995.

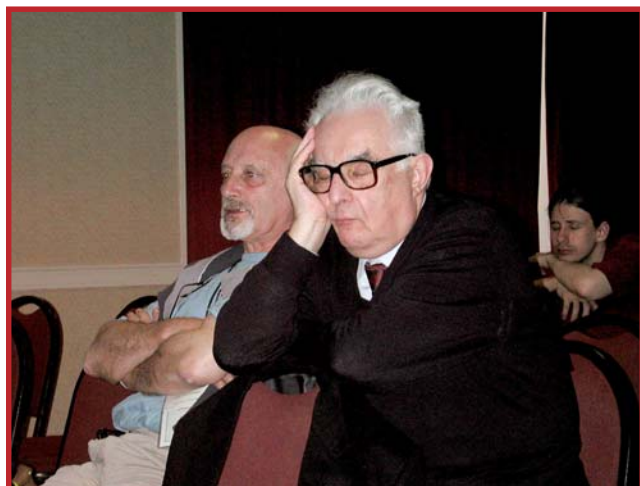
Since Enrico Clementi hired at IBM Research all the people in the
picture and since we formed the core of the quantum chemistry group
outside the IBMOL project that Enrico organized, I am pretty sure that he
will enjoy the picture.
According to the letter that
Megumu sent me, the picture
was taken in 1970 near a
restaurant in Los Gatos called
the Villa Felice by Prof. Kimio
Ohno who was visiting IBM
from Hokkaido University.

Regards,

Paul Bagus



From left to right, the people in the picture are:
Doug McLean, retired. The last e-mail address that I have for Doug is
jmclean@jps.net
Megumu Yoshimine, Deceased.
Bowen Liu, Deceased.
Bill Lester, Chemistry, U.C. Berkeley walester@cchem.berkeley.edu
I am on the far right.



A long day at the 2002 Sanibel
Piet Van Duijnen, Enrico Clementi, and
Tom Henderson
[Photo from QTP Archives]

*Produced by
Quantum Theory Project
Departments of Chemisty and Physics
University of Florida*

