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#### Directors

Club Relations & Public Relations Bill Halderson  
 Club Service & Membership Jim Bruce  
 Community Service Tom Parker  
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 Programs & Fellowship David Williams  
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#### The Four-Way Test

*of the things we think, say or do*

1. Is it the **truth**?
2. Is it **fair** to all concerned?
3. Will it build **goodwill** and better **friendships**?
4. Will it be **beneficial** to all concerned?

On-Line Makeup • [www.rotarydistrict6920.net](http://www.rotarydistrict6920.net)

Rotary Club of St. Simons • Founded in 1950  
 Meets Tuesday 1 P.M. - Sea Palms Golf & Tennis Resort  
 Rotary Club of St. Simons • P.O. Box 21887 • St. Simons Island, GA 31522  
[www.rotarydistrict6920.net](http://www.rotarydistrict6920.net) • [www.rotary.org](http://www.rotary.org) for Rotary International



**Rotary Club**  
**St. Simons Island**  
**Georgia, U.S.A**

**District 6920**

# Rotary Spray

**October 12, 2004**

**Today's Program:**

**Jack McDevitt**

**Science Fiction Author**

#### Area Rotary Clubs

| Club                 | Meeting                              | Day & Time     |
|----------------------|--------------------------------------|----------------|
| Brunswick            | Twocan's, Brunswick                  | Thu. 1:00 P.M. |
| Glynn County         | Twocan's, Brunswick                  | Wed. 7:30 A.M. |
| Jekyll Island        | Jekyll Island Club Hotel             | Wed. 8:00 A.M. |
| St. Simons Island    | Sea Palms (Confirm before attending) | Tue. 1:00 P.M. |
| SSI Marshes of Glynn | Epworth                              | Thu. 7:30 A.M. |

**Managing Editor & Publisher**

John Buchanan

**Chairman - Program Reports**

Bill Turbeville

**October Program Reporter**

Bob French

**Data Reports**

Susan Hardwick

Maria Vogt

**Attendance**

October 5 70%

**Rotabucks**

\$54 won by Anita Crispin

**Visiting Rotarians**

- Huntley Allen—Atlanta
- Roger Greenwood—Albany, NY
- Ervin Williams—Pretoria, South Africa

**Prospective Members**

- Ken Hickerson—Guerry Norwood
- Lee Scheinman—Marie Dodd

**Upcoming Programs**

October 19—Classification Talks

**Greeters**

- 10/12 Calder Kinney
- Stan Kyker
- 10/19 Jim Langston
- John Law

**Wellness Report**

Nothing to report.

**Makeups**

- Brooke Pridmore—Brunswick

**This Week's Birthdays**

- Joe Fischer October 12
- Kent Taylor October 14

**Blue Badge Presentation**

Congratulations to Brooke Pridmore.

**Guests—Hosts**

- Fred Collins Jr.—Fred Collins
- Harriet Govan, Guidance Counselor, Frederica Academy—Hosted by Hamsa Thota
- Susan Gussman—Bill Gussman
- Ken Hickerson—Guerry Norwood
- Kendra Johns, RYLA Student, Frederica Academy—Hosted by Hamsa Thota
- Mary Lewis—Charles Lewis
- Jean Rayfield—Jack Rayfield
- Lee Scheinman—Marie Dodd
- Angie Votsis, Guidance Counselor, Glynn Academy—Hosted by Hamsa Thota
- Alexa Votsis, RYLA Student, Glynn Academy—Hosted by Hamsa Thota

**Last Week's Program** (October 5, 2004)**Dr. Dorin Schumacher**  
**CPBR**

See insert for the report of Dr. Schumacher's presentation.

**New Member**

Bill Gussman was introduced by Charles Lewis.

**Announcements from the President**

President Leslie reported on the October 4, 2004, Board of Directors Meeting.

**New Members** (3)

- Millard Allen
- Shirl Balman
- Sal Cenicola

**Resignations** (1)

- Bill Kernohan

**Current Membership** 129**Change of Membership Status** Andy Hunt to Medical Leave of Absence. Andy is now in the Brian Center.**Club Rules** Membership Directories are now \$15. All new members are required to become Paul Harris Sustaining Members.**Oyster Roast** Marie Dodd is organizing an oyster roast for November 19. More information soon.**Clock-Sign Proposed Project** Leslie Mattingly displayed a plan-view of the first version of the proposed clock-sign. Location being discussed is entrance to the village or "down by the pier." More information is forthcoming.**RYLA Students**RYLA (Rotary Youth Leadership Awards) Students were guests of Hamsa Thota. **Alexa Votsis**, Glynn Academy, and **Kendra Johns**, Frederica Academy, were introduced and awarded certificates by President Leslie Mattingly. Each student made acceptance comments.**Cart Fund** The third of three papers with facts about the Cart Fund will be presented with the October 19 edition of *The Spray*.

**Enclosure: Program for October 5, 2004**  
**Dorin Schumacher, Ph.D.**  
**Chairman of the Board and President**  
**The Consortium for Plant Biotechnology Research, Inc.**

David Williams introduced Dr. Dorin Schumacher. In 1985, Dr. Schumacher founded The Consortium for Plant Biotechnology Research, Inc. (CPBR), a national research funding and technology commercialization company, and she has served continuously as its chief executive officer. She brought CPBR to St. Simons Island in 1995.

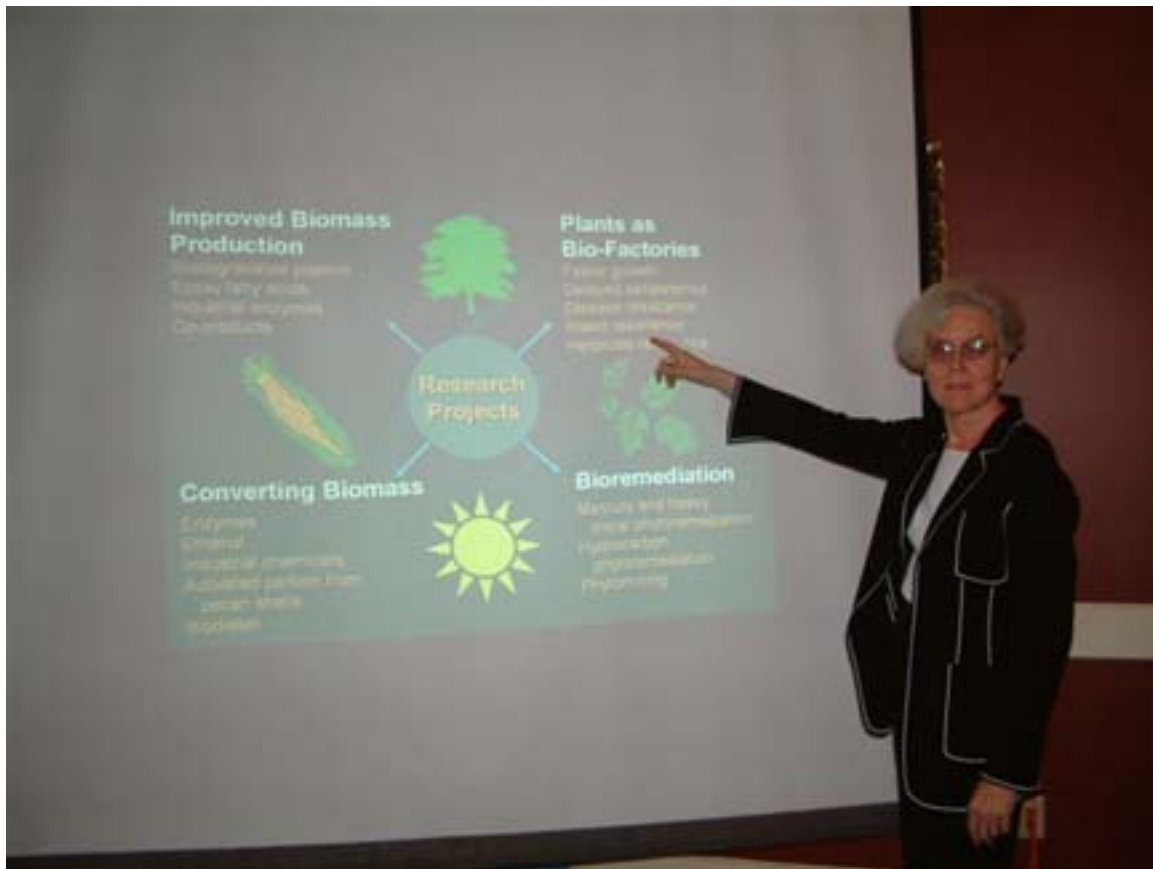
Today, CPBR is a partnership of companies and universities and it has funded over \$90 million in high quality, industrially relevant, applied research in plant biotechnology. Under Dr. Schumacher's leadership, CPBR brings university and industry researchers together to collaborate on technology transfer – collaborations that lead to the commercialization of research and the establishment of new companies.

Dr. Schumacher defined CPBR as a “virtual corporation,” with its administrative offices in SSI. She defined biotechnology as “the application of organisms, biological systems or processes to manufacturing and service industries.” This is opposed to the current mechanical and/or chemical (based primarily on petroleum) means of production. Biotechnology uses living organisms in the manufacturing process. The process is constantly renewable.

She mentioned that 32 companies and their subsidiaries, 37 universities, and 11 affiliated universities form the Consortium. Dr. Schumacher provided a handout which included a list of the member companies and universities. She commented on each of the company members and mentioned research work being done at UGA. She defined “A Vehicle for Accelerated Technology Development,” with the major players being universities, government, and industry. Universities provide new concepts, methods, and materials using “basic work, peer review, and sense of state-of-the-art.” Government agencies provide the means for transfer by defining policy and priority and providing funds. Industry provides new applications through technology needs, applied R&D, and special purpose funding.

Dr. Schumacher discussed research projects in terms of: (1) improved biomass production; (2) plants as bio-factories; (3) converting biomass; and (4) bioremediation. She elaborated on plants as bio-factories, mentioning faster growth; delayed senescence; and disease, insect, and herbicide resistance. Discussing converting biomass, she talked of improving enzymes and the possibility of making ethanol that costs less than gasoline. Dr. Schumacher stressed the importance of reducing pollution with these revolutionary, exciting new technologies.

She defined the source for the >\$90 million funds as (1) various federal agencies providing more than \$40 million, and (2) non-federal matching funds (from industry and other sources) providing more than \$50 million. For every \$1 the government puts into the program, given the non-federal matching funds and the role of CPBR, \$2.30 worth of research is realized. Funded projects in Georgia include enzymes for the breakdown of biomass, production of southern hardwood seedlings, southern pine, chemicals and ethanol, novel antibiotics to treat staph infections, and analysis of cotton and peanut genes. President Leslie Mattingly complimented Dr. Schumacher on her contributions to science and today's presentation.



Dr. Dorin Schumacher discusses 'plants as bio-factories' as part of biotechnology.