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of teaching and learning, but it also rekindles the desire to teach. What we're after is what I call the *dynamic classroom*, which is more than just a teacher talking and students taking notes and doing assignments, it is the engagement between the teacher, the students, and resources that leads to what I think is the ultimate goal of education - independent learning².

On the Changing Nature of Logo

Glen Bull has started a new column in the *Logo Exchange* (Sept., 1989) called *Logo and Company* where the goal is to discuss uses of technology that are Logo-like. Years ago, when Logo first appeared on the educational computing scene, there were not a lot of interesting open-ended computer applications that supported Seymour Papert's vision of what education should be like. Today there are more. Glen will be commenting on them in his column. In future issues of the CLIME News we will highlight those applications that are particularly useful for teaching mathematics. Hopefully, you can share some examples with us.

Conferences

Al Cuoco (Woburn High School, Woburn, MA) attended the EuroLogo-89 Conference in Gent. He reports: "It was a very informative conference. I saw an interesting activity that's being developed in Germany; it uses Logo to help students visualize regular polyhedra by constructing their "nets" (what you get when you cut the polyhedron and lay it flat). It looked like a nice way to introduce some algebraic topology to children." For more info contact Al.

Are you attending a National Council of Teachers of Mathematics (NCTM) regional meeting? Here are some future meetings:

Philadelphia, Pennsylvania, November 30, 1989
Chattanooga, Tennessee, March 15, 1990
Hamilton, Ontario, May 10, 1990
Honolulu, Hawaii, July 31, 1990

Next annual meeting is in Salt Lake City, Utah beginning on April 18, 1990. For more information write to: NCTM, 1906 Association Drive, Reston, VA 22091. Or call: (703) 620-9840.

(If you attended a recent meeting and went to an interesting Logo session, please share it with us.)

Don't forget the Great Lakes/East Coast Logo Conference (Cleveland, OH May 4-5, 1990)! Contact ECCO, 1123 S.O.M. Center Road, Cleveland, OH 44124 (216/461-0800) for more information.

On the Theme of this Newsletter

Randomness is a neat phenomenon that has always been a favorite of mine. I always found it intriguing that random events like the rolling of dice can be so predictable. Lately there has been a renewed interest in the notion of randomness because of books like James Gleick's *Chaos* and the beauty of fractals (chaos on a computer screen). We hope you enjoy the two articles we've included on randomness: *What is Random Anyway?* by Michael Tempel and *The Random Turtle* by Lew Romagnano.

On Helping CLIME Make a Difference

Our first microworlds issue is history and we will be doing more in the near future. If you have a microworld to contribute please send it our way.

Many of you indicated that you would be willing to serve on a committee. Unfortunately, I do not have the resources to contact you individually in order to organize appropriate committees. So I am asking you to step forth and offer your help in whatever way you can. Some of our needs are:

Help with advertising. There are many affiliated groups of the NCTM, organizations that might be interested in the work of CLIME and might want to join. I will be sending this newsletter to many of them asking them to advertise our organization in their newsletter. There are many other places where we can send our literature. If you would like to help in getting the word of CLIME out, let me know.

Contribute news, articles, problems to solve, microworlds, etc. If you have or know of any items that are noteworthy, please send them to our office.

Become an officer. Positions available for the 1990-1991 school year are: President, Treasurer, NCTM liason, and Editor of Newsletter.

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Terrapin has moved

In case you haven't heard Terrapin Logo, Inc. has moved their office to Maine. Their new address is: 400 Riverside, Portland, Maine 04103. (207) 878-8200. If you are not on their mailing list and want to get a copy of their informative newsletter *The Terrapin Times* call or write to the number or address above.