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Spectral time of the provided for a first second year. The second year is the second year is second year. The second year is year

ings of up to \$150 per person. "The goal of the project is two-fold," explains William F. Harsen, executive vice president of the Unit-

Pontiac. • April 11 — 9 a.m. to 5 p.m. Providence Hospital, 16001 W. Nine Mile, Southfield. • April 16 — 1-7 p.m. Oxford Health Care Center, 385 N. Lapeer Road, Oxford.

Thursday, March 19, 1981

Oakland County's Act 641 soon must decide thether solid waste should be "preprocessed" be

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Oakland Counky's Act 641 soon must decide whether solid waste should be "preprocessed" be-fore incineration. Trash either could be burned "as is," with no pretraitment or handling. Or it could be sorted to enouve bulky tims, then shareded before it enters the 20-year master plan. Why does it matter how the garbage is burned? The praceloally of preprocessing depends in great part on the type of firing system that is se-tected. And if paper and other materials are not sorted, they are not likely to be recycled. What does the master plan suggest? IN THE WIXOM and Rochester areas, small two-chamber modular combustion units (MCUs) are appeled to reverse steam from 600 (app of each collected daily. The praceled daily. The specified daily of the collection tracks. Furth MORE than half of the combut investment

BUT MORE than half of the county investment (about \$8 million) will create a large energy recov-ery boiler plant in the County Service Center. It could handle 1,600 tons of refuse daily.

Engineering consultatis Camp, Dresser and McKee (CDM) recommended three possible refuse-to-energy systems for the plant: • Mass burning of raw refuse; no prior process-

Semi-suspension burning; refuse reduced in size and metal-free.

• Full-suspension burning; refuse double shredd-ed, air-classified into "fluff" or "dust" to be used

ed, all-classified not include the format of the second se

IN MASS burning, a thick bed of refuse is moved by a stoker and fed air from below. The rates of burning, stoking, air flow and steam production are regulated by combustion controls. The waste is burned "as is" except for items too large to enter the unit. Stokers and residue remo-

vers must be durable enough to handle occasional engine blocks or oil drums that slip by undetected. More than 100 mass burning plants produce steam and/or electricity worldwide, including mu-nicipal operations in Chicago, Montreal and Nash-

Nancy Kourtjian

Solid waste: Should it be 'preprocessed'?

SEMI AND full-suspension systems reduce waste by shredding, then burn the particles while they are airborne.

by shredding, then burn the particles while they are airborn. Senitorne, and the particles while they are airborne. Senitorne, and the particles while they are and plastic must be only 1¼ inches and heavier therafore, double shredding and air classification must be used. The full-suspension method burns everything fold, but semi-suspension allows larger pieces to fall to a stoker and burn more slowly. The direct product of the shredding and separating is SRP, relaxed the shredding and separating is the fold, but semi-suspension allows larger pieces to fall to a stoker and burn more slowly. The direct product of the shredding and separating is the form of the shredding and separating is the form of the shredding and separating is the form of the shredding and the installations for burger parts. The only runnicipal full station for object his operated in Kodak Part in Rochester, NY, since 1973. American companies developed pyrolysis tech-forwer the inchestave also investigated pulls and paper mill technology, where word waste is used to generate steam and electricity, and applied it to emissionession systems for soil waste manage. The report listed four advantages of suspension

The report listed four advantages of suspension More energy efficient: less air is used; 10 per-cent more steam is created; and less air pollution from flue gas.

Tom fue gas.
More responsive to change; lighter particles respond quicket to changes in steam requirements.
Steadier; smaller, more homogenous fuel particles give more consistent back value despite moisture variation.
Smaller units; 35 percent cheaper to build; easier to maintain with no complex stokers, less originates occur.

easier to maintain with the contract of the alternative systems CDM then compared the alternative systems with regard to economics, efficiency, risk, reliabili-ty and compatability with resource recovery. They concluded that explosions make shredding too

'It took 50 years to teach people wasteful habits. It may take another 50 to change their attitudes back to conservation."

– Dr. Eugene Glysson, civil engineering professor

risky, full suspension is uneconomical; semi-suspen-sion has possibilities; modular units are "accept-able"; and mass burning gets top billing. Recovery of only ferrous metals was recommended. BUT ADVICE from the experts seems contradic-tory, or at best; confusing. For example, preprocessing was called an "unde-sitable" argumes. All the negative aspects of mass-fired bollers were said to be counteracted by the ned for preparation in the suspension systems.

Need for preparation in the suspension systems. Yet the firm then states that if all preprocessing costs were supported by sale or recycled goods, a suspension system would be the best choice on a cost basis. Much of the explosion problem has been elimi-

nated, according to Dr. Eugene Glysson, professor of civil engineering at the University of Michigan. Glysson said that improved shredders now tear open bags of waste with "claws" rather than beat them in hammermills.

He also pointed out that though suspension sys-tems have better heat recovery, mass burning is

tems have better heat recovery, mass burning is simple and reliable. ASKED ABOUT curbside separation, Glysson was doubtin, the commented "It took 50 years to teach people wasteful habits. It may take another 50 to change their attitudes back to conservation." Glysson had an innovative suggestion for on-site-separation of recyclables — use neglected human resources. Unemployed workers or wellare recipi-ents could sort salable materials at county facil-ties. Concerning mechanical separation, he said, "There's no substitute for the human mechanism for takine thines apart." for taking things apart."

The writer is a member of the Act 641 Com-mittee studying the proposal countywide solid waste plan. The views are her own.

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