'Sound sleuths' make the indoors livable

"WE CALL acoustics the science of sound. Noise is unwanted sound. "By investigating and understand-ing how sound propagates from a particular source, we can design sys-tems to eliminate noise," said Saha, who holds a doctorate in mechanical engineering with an acoustics speci-



master's degree in acoustical engineering, received the Young Engineer of the Year Award from the Oakland Conty Chapter of the Michigan Society of Professional Engineers earlier this year.

of his work.

"For a long time, acoustics has been a low priority liem. I believe the profession is starting to get the attention it decerves," he said.

Kolano, who frequently works on acoustical problems in buildings, has observed that "how a building looks seems to be the most important common." The acoustics receive little attention until noise problems surface."

THE FIRM recently was hired by the City of Rochester Hills to ana-lyze sound problems in its council

lyze sound problems in its council meeting room.

The award-winning facility is highly equipped and has a broathtaking view of the outdoors. But it urned out to be a "room of acoustical horrors" that required an acoustical over haid to be usable. The council chamber had severe the council chamber had been severed by a severe the council chamber had been severed by a severe had been severed to be a severe the council chamber had been severed by a severe had been severed by a sever

rade tape recorder.

Back in the lab, they decipher the coordings gathered on-site, using requency analyzers linked to a commuter. We are able to break up the bunds we record into very narrow ands, and can determine the harm shoele structure of a noise," said sha.

RICHARD KOLANO, who holds a master's degree in acoustical engineering, received the Young Engi-

NEW BUILDING materials and equipment contribute to the increased noise levels in apartments, homes and offices.



Sound engineers Pranab Saha (left) and Rick Kolano pose in their Troy laboratory with a three-dimensional display of the sound field

radiating from a loudspe ingly louder frequencies. dspeaker tested at increas

Years ago buildings were constructed with heavy masonry materials that provided natural barrlers to sound, Kolano said. "As we have gone to lighter weight construction and more sophisticated ventilation systems, noise transmits more readily through the structure."

systems, noise transmits more readily through the structure."

The trend to open plan offices with short partitions between work stations often creates equipment and voice noise problems that are not

THE ENGINEERS observed that much of their work 10 years ago was done because federal regulations had certain noise control requirements.

masked by sound-absorbing ceiling panels.

"In such cases, we can mask sounds by distributing electronically generated random noise through loudspeakers above the ceiling." he said.

THE PNGINFERS observed that

"Communities are becoming more conscious about noise in the environ-ment and realize something can be done about it."

Anderson is new chief circuit judge

Robert C. Anderson this week be-gan a two-year term as chief judge of the 14-member Oakland Circuit

Court.
As such, Anderson will direct the administration of the circuit court, supervising caseload management and court finances. He also will represent it in its relations with other courts, government, the bar and the public.

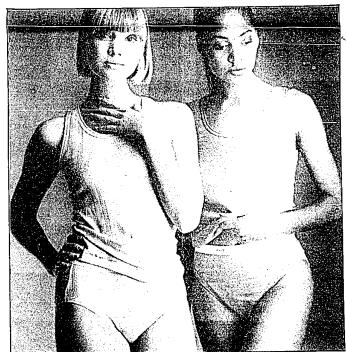
courts, government, the bar and the public.

Anderson was a district judge in Waterford Township when he was elected to the circuit bench in 1978. Community activities include Boy Scouts, Oakland County Family Ser-vices and the Parent-Teacher Asso-ciation.



Semi-annual savings on these unbasic basics.

20% Off Jockey For Her^o



Is a basic still a basic when it's as much fun as, well, anything from Jockey for Her? These are 100% cotton, in postels and brights, all made in U.S.A., and they're all at 20% savings.

Left: Racerbock tank top in Magic Rib, sizes 5, M, L; 1600; reg. \$8, sale 6.40. Magic Rib hipster, textured cotton, sizes 5, 6, 7; 11,000; reg. \$5, sale \$4.

Right: Tank top in a 2x2 rib knit, sizes S, M, L; 2200; reg. \$7, sale 5.60. French cut brief, high cut for a flattering fit, sizes 5, 6, 7; 14,000; reg. 5.50, sale 4.40.

Also, save 20% on Jockey for Girls: Briefs and hipsters in assorted pastel stripes and solids, sizes 8-14, reg. 2.50, sale \$2; ribbed tank tops in assorted pastels, sizes S, M, L, reg. 3.50, sale 2.80.

Intimate Apparel. Sale ends January 16, 1988. *Total units available at all Hudson's stores.

series in the series of the service mark CPS as a rating easier of t Juvenile rules studied

Secretarial exam

workshops start

Oakland Community College's
Business and Professional Institute
(BPI) is offering exam-preparation
classes for students involved in certified professional secretary (CPS)

"Behavorlal Science in Business"

"Behavorlal Science in Business"
secretarial proficiency.

The Juvenile Court Committee of the Oakland County Bar Association will present a seminar on the new relies committee; and William P. Michigan juvenile court rules 1-5 Bartlam, Oakland County probate pm. Tuesday, Jan. 19, in For & Hounds Restaurant, 1560 N. Woodward, Bloomfield Hills.

Hounds Restaurant, 1500 N. Wood-ward, Bloomfield Hills.

The seminar will feature Probate at the door. The Bar Association's Judges Donald S. Owens of Ingham number is 338-2100.

Economic unit gets state cash

The Oakland County Community commerce, higher education, utili-Growth Alliance (CGA) has been tics, development firms and local awarded a \$144,000 state matching greant to help coordinate economic development efforts.

CGAs are public-private coalitions representing business, chambers of state during the current fiscal year.

ORDER BY PHONE, tall-ties 1 800 233-2500. USE YOUR HUDSON'S SHOPPING CARD, VISA, MasterCard, The American Express Card of Discover