Endangered species?
Migrating songbirds are going the way of the Big Band Era

Though winter can be bleak for the nation's veteran bird watchers, April has become the crucial month.

For many years, hundreds of species of migrating songbirds—waxwings, flycatchers, thrushes, vireos and others—swarmed into the nation's woods in April and May on their way from neo-tropical forests to a northeasterly mating rendezvous that lasts two months. Their chorus was a discordant yet harmonious happening, their return one of the grandest free shows in nature.

But the annual songbird jam session seemingly has gone the way of the Big Band Era. Their population has declined so rapidly over the past 40 years that concerned ecologists such as Richard Coles, Ph.D., professor of biology at Washington University, are perplexed by the phenomenon.

He says the currently popular theory behind the dwindling numbers—the rapid, relentless deforestation of large tracts of woodlands in Central and South America, the primary homelands of the birds—may be just one of several insidious facets of 20th-century civilization.

Coles, who oversees the Tyson Research Center, the University's 2,000-acre wooded wildlife refuge near Eureka, Mo., has surveyed migrating songbirds there each spring since 1980. His results are disturbing: for seven of those years the numbers of species make a yearly impact on migratory bird numbers.

Coles says, factors such as drought and the effects of other factors such as the cowbird also destroy a lot of the population. And Coles cautions Americans not to consider our own drive to tame the wilderness as the only reason for the decline of songbird species in the United States. Coles observes, "It's much too early to say tropical deforestation is behind all of this," says Glen Sanderson, Ph.D., head of the section of Wildlife Research at the Illinois Natural History Survey in Champaign. The immediate decline of at least some species is due to fragmented habitats, predation and parasitism, he believes. Studies show as much as 80 percent of some songbird species in the United States are lost to predators that naturally live in areas that the songbirds are now forced to nest and breed. Parasites, such as the cowbird, also destroy a lot of the population.

"It's a bit all together and you have species that are facing an uphill battle in North America regardless of what is happening in South America," Sanderson observes.

And Coles cautions Americans not to consider our own drive to tame the continent as ancient history.

"We need only to glimpse in the real estate developers' section of the Sunday paper to be reminded that urban sprawl is accelerating," the biologist says. "And in the country, the center pivot irrigation sprinklers are a particularly noticeable image of the continuing expansion of man's influence."

Bird population trends as reflected at the Tyson Research Center may be the harbinger of an ecological series of chain reactions that could bode ill for the 21st century. If, for example, the rapid, relentless deforestation of the tropics continues, the species that are facing an uphill battle in North America may be just a forerunner of the kind of disaster that has already befallen the Southern Hemisphere.
Baers donate sculpture to library

The bust of Maugham, a novelist, short story writer and playwright, was created by American-born artist Sir Jacob Epstein in 1951. Maugham is best known for the 1915 novel Of Human Bondage.

The Missouri Historical Society will receive a white bronze sculpture of English writer William Somerset Maugham. The bust is 9 1/2 inches wide and 15 3/4 inches high. It will be on display early next year in Olin Library's Harris Reading Room. (Continued from page 1)

Arkansas...continued from page 1

state, the architectural profession and the School of Architecture," he continues. "Missourians will gain access to the world-renowned contemporary sculptor who specialized in portraits of prominent literary figures. The sculpture, which will be on display in Olin Library, has a dark patina (a green finish caused by oxidation) and rests on a marble base."

Architecture

The scholarships will be awarded each year to Missouri residents who have been admitted to professional-level study in the School of Architecture. Award recipients will be eligible for three academic year renewals for a maximum of four years of study at the university.

The architectural program is Missouri's only permanently established architecture school. It was established in 1910, is Missouri's only sculpture school and has been admitted to professional-level study in the School of Architecture. The cost of sending the Record to employees' homes is extremely low because of special educational nonprofit second-class in-county postage rate category.

If you are receiving duplicate copies at home, this is possible for several reasons: 1.) Two or more members of the household are employees of the University and each employee is entitled to receive all official University mailings. 2.) A member of the household belongs to the University's Eliot Society. Membership in the Eliot Society is a way of involving your family in the University's activities by helping to support the campus, and providing information on important developments.

East German ambassador will lecture

Gerhard Herder, ambassador of the German Democratic Republic to the United States, will present an Assembly Series lecture at 4 p.m. Tuesday, Dec. 15, in Graham Chapel. The talk is free and open to the public.

The ambassador of East Germany will be in St. Louis to present seven-year-old Brent Fornelli of Meramec Village, who has participated in a project sponsored by the United States Department of Agriculture's Office of K.I.D.S. and the World Affairs Council of St. Louis, for more information, call 889-5285.

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Example: researchers find that songbird species are declining in Latin America as well — there have been few reliable bird surveys done there — this could mean a global ecological nightmare, spurred by massive deforestation.

Since the 19th century, global carbon dioxide levels have risen 30 percent; scientists blame this increase on the upwelling of millions of tons of carbon dioxide from the 19th century that use and store the gas. This and the burning of fossil fuels, in turn, contribute to the greenhouse effect as well as impair the ability of some deforested areas to recycle rainfall. A forested area the size of West Virginia is said to be disappearing each year from South America — with a reforestation rate only 10 percent of what is being harvested. The destruction of habitat impairs the existence of as many as 10 million different species of animals, particularly birds and fungi.

The deforestation is promoted by the huge demand for agricultural and forest goods — coffee, sugar, bananas, grain, beef and exotic woods such as teak, mahogany and rosewood.

Ironically, an ongoing trend is to light a fire at a time when forestry is rebounding in the United States. But while there are incentives to reuse such woods, it takes 30 to 60 years for hardwoods to mature. The great majority of farming practices also involve acres into grasses, clover or alfalfa.
Joan Cassel, Ph.D., a research associate professor in the biology and sociology departments, is having her book, *A Group Called Women* republished. The book, originally written by President Green was the original publisher. The book, an explanation of the women's movement as it flourished in a large city and on a metropolitan university campus.

Richard Colignon, Ph.D., assistant professor of sociology, recently delivered a talk, titled "Elite Ideological Networks of the African American Plateau: From Lorraine Hansberry to Wayne State University." The paper was the basis for Colignon's explanation of the Tennessee Valley Authority policy and, more generally, the New Deal policy of the late 1930's.

Susan Crawford, Ph.D., director of the medical school library and professor of biomedical communication, spoke on a panel, titled "Evaluation of Scientific Information. Peer Review and the Current State of Scientific Technology," at the annual meeting of the American Society for Information Science held in Atlanta, Ga. Members of the panel included Philip Abelson, former editor of Science, and Garfield, president of the Institute for Scientific Information. As chair of the society, Crawford is responsible for the annual meeting.

Barry J. Linder, M.D., a resident in the Department of Ophthalmology, wrote a case report for *Science*. Linder attended a meeting and a news conference in Washington, D.C., to officially release the committee's report on "Conflicts of Explanations for Living Universes, a Strategy for Space Life Sciences."


Bernard D. Beans Jr., J.D., Ph.D., professor of law and director of the law library, has been appointed to the National Moot Court Competition to be held Jan. 25-26 in New York City. Approximately 40 students competed at the Nov. 19-20 regionals at the Federal Courthouse in Kansas City, where they wrote legal briefs and presented oral arguments to panels of judges. The regional competition was sponsored by the Kansas City Metropolitan Bar Association and the Association of the Bar of the City of New York. The national competition was held Jan. 25-26 in New York City. Approximately 40 students competed at the Nov. 19-20 regionals at the Federal Courthouse in Kansas City, where they wrote legal briefs and presented oral arguments to panels of judges. The regional competition was sponsored by the Kansas City Metropolitan Bar Association and the Association of the Bar of the City of New York.

The winner of the regional competition was second-year law student A. J. H. Smith, who won the national competition. Smith attended the national competition held in Kansas City, where he wrote legal briefs and presented oral arguments to panels of judges. The national competition was sponsored by the Kansas City Metropolitan Bar Association and the Association of the Bar of the City of New York.

Ruth E. Ebert, second-year law student, was named one of the National Moot Court Competition winners. Ebert was a member of the winning team, which wrote legal briefs and presented oral arguments to panels of judges. The national competition was held in Kansas City, where the winning team, which wrote legal briefs and presented oral arguments to panels of judges, was named one of the national winners.

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Ganesh Natarajan and Jack Su, second-year law school students, were named alternates at the regionals. M. Susan Tokarz, assistant professor of law, is the faculty adviser. Also preparing for a national competition are second-year law students James A. Ebert and Lynn H. Mos, who competed in a national competition held in Kansas City, where they wrote legal briefs and presented oral arguments to panels of judges. The national competition was sponsored by the Kansas City Metropolitan Bar Association and the Association of the Bar of the City of New York.

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LECTURES

Thursday, Dec. 8
4 p.m. Dept. of Chemistry Seminar

Friday, Dec. 9

4 p.m. Dept. of Pathology Seminar. "What Have We Done Since?" "30 Years About Peripheral nerve Deafness" in Man." Burton F. Harold, Dept. of Anatomy and Neurobiology, Third floor Aud., Children's Hospital.


4 p.m. Dept. of Philosophy Colloquium. "Lie and Truth in Logical Conceptions on Observation and Theory." Daniel Gilman, WU visiting professor in philosophy. Hurst Lounge, Duncker Hall.

Friday, Dec. 9


Monday, Dec. 12

4 p.m. Immunology Seminar. "Decoy Accelerating Factor From Gene to Phenolipid: Anchored Membrane Proteins." Douglas Dulin, Dept. of pathology and medicine. Third floor Auditorium, Children's Hospital.

Tuesday, Dec. 13
10:30-5:00 p.m. Dept. of Romance Languages and Literatures. "A Week With Sylvia Molloy." "Hans-Henning Pehrsson at 11," will conduct a series of talks and discussions on authors of the language and literature of Spain and Latin America. Discussion will be held through Dec. 16 from 1:30 to 3:00 p.m., 100 Baldy.


Wednesday, Dec. 14

Thursday, Dec. 15
4 p.m. Annual Robert J. Terry Lecture. "The Cerebrospinal Fluid Pathology of the Sinus Migrator." Filippo Rubino, Yale U. School of Medicine, Moone Ave., 800 W. Airport Rd.

4 p.m. Dept. of Pathology Seminar. "Immunohistochemical and biochemical studies: Optional Bronchial Revascularization in Single and Double Lung Transplantation and Heart Lung Transplantation." Hans Schrammek, Dept. of Surgery, Third floor Aud., Children's Hospital.


8 p.m. Dept. of Romance Languages and Literatures. "The Value of Anthro- graphical Writings in Spanish America." Sylvia Molloy, Dept. of Romance Languages and Literatures. 101 Blewett.

Friday, Dec. 16
Noon. Neuroscience Lunch Seminar and Physiology Seminar. "Coordinator Expression of Insulin-like Growth Factors and Their Receptors During..." 4

MUSIC

Thursday, Dec. 8
8 p.m. WU Dept. of Music Presents WU Mixed Choral Concert with Sally Herman, director. Graham Chapel.

Friday, Dec. 9
8 p.m. WU Dept. of Music Presents WU Chamber Choir Christmas concert with Louis Schulze, director. Graham Chapel.

Saturday, Dec. 10
7:30 p.m. WU Wind Ensemble. Directed by Dan Prager, director. Graham Chapel. "What's Up Tiger Lily?" 821-5054. Noon. Wind Ensemble, Louis radiologist and a 1975 graduate of the University's School of Medicine. The exhibit, which is open 8 AM-5 PM, 5 days a week, includes more than 100 books, many of them signed first editions: 25 letters written by O'Neill and another 50 written by Cardoza; dozens of manuscripts and galley proofs, and some 30 photographs.

A special collection: A signed portrait of playwright Eugene O'Neill and his third wife, Carlotta Monterey O'Neill, is included in "Eugene O'Neill: a Centenary Celebration," an exhibit on display through Dec. 30 in Olin Library Special Collections. Considered one of the most significant private O'Neill collections in the world, it consists of some 300 items by and about the Nobel Prize-winning playwright. The collection, on display for the second time, is owned by Harley Hammett, M.D., an Atlanta radiologist and a 1975 graduate of the University's School of Medicine. The exhibit, which is open 8 AM-5 PM, 5 days a week, includes more than 100 books, many of them signed first editions: 25 letters written by O'Neill and another 50 written by Cardoza; dozens of manuscripts and galley proofs, and some 30 photographs.


Thursday, Dec. 13

FILMS

Thursday, Dec. 8
7 and 9 p.m. WU Filmboard Series. "Volypm." $2. Brown House.

Friday, Dec. 9
7 and 5:30 p.m. WU Filmboard Series. "Dreamsnack." $2. Brown House. Oberst Sun., Dec. 11, 10 same times, and Sun., Dec. 11, 4-7 p.m.

Midnight. WU Filmboard Series. "A Christmas Story." $2. Brown House. $1.50 Thu., Dec. 11, 10 same times, and Sun., Dec. 11, 4-7 p.m.

Monday, Dec. 12
7 and 9 p.m. WU Filmboard Series. "What's Up Tiger Lily." $2. Brown House. (Also Tues., Dec. 13, same times, Brown.)

Wednesday, Dec. 14

SPORTS

Saturday, Dec. 10
7 and 9 p.m. Men's Basketball. WU vs. Notre Dame. Field House.

EXHIBITIONS

"Videos Form and Performance." Through Dec. 17. Gallery of Art, Steinberg Hall, lower level. 10 a.m.-5 p.m. weekdays, 1-5 p.m. weekends.

"Eugene O'Neill: A Centenary Celebration," an exhibit drawn from the private collection of Harley J. Hammett, M.D., was at the Library Special Collections through Jan. 8. Gallery of Art, Steinberg Hall, 10 a.m.-5 p.m. weekdays, 1-5 p.m. weekends.

"MFA Exhibit," featuring work of sculptor Chuck Hasel. Through Dec. 11. Bailey Gallery. 10 a.m.-4 p.m. weekdays, 1-5 p.m. weekends.

Symphony Orchestra, Wind Ensemble will hold auditions

Both the Washington University Symphony Orchestra and the Washington University Wind Ensemble will hold auditions for the second semester.

Auditions are open to University students, faculty and members of the St. Louis community.

The orchestra auditions will be held from 4 to 6 p.m. Tuesday, Dec. 13, and from 5 to 6 p.m. Thursday, Jan. 17, in Tietjens Rehearsal Hall. The symphony has immediate openings in all string sections and in all wind sections except flutes.

The orchestra is scheduled to perform one concert in February and a second concert in April in the Saint Louis Art Museum Theatre.

Late this fall, the Washington University Symphony Orchestra is planning a concert tour dedicated to the performance of the symphonic repertoire from Baroque to the present.

The 55-member ensemble, reports that there are some immediate openings in the trumpet, bass clarinet, trombone, baritone horn, percussion and oboe sections.

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