

|                                       |   |   |                                    |                                    |          |                                    |          |                                   |         |
|---------------------------------------|---|---|------------------------------------|------------------------------------|----------|------------------------------------|----------|-----------------------------------|---------|
| Stafford, Edward S. . . . .           | 356   | Thimann, Kenneth V. . . . .             | 66                                 | Vogel, Victor . . . . .            | 53       | Welch, Henry . . . . .             | 210, 375 | Woodward, Robert B. . . . .       | 341     |
| Stafford, Jane . . . . .              | 10, 74, 170                                     | Thomas, G. J. . . . .                   | 249                                | Voice transmission . . . . .       | 19       | Weller, E. H. . . . .              | 198      | Worms need blankets . . . . .     | 11      |
| Stage, H. H. . . . .                  | 136   | Thomas, Lyell J. . . . .                | 329                                | Volcano, Mexican . . . . .         | 329      | Werner, L. B. . . . .              | 195      | Wormwell, F. . . . .              | 169     |
| Standard, length . . . . .            | 403   | Thomas, R. C. . . . .                   | 56                                 | Voltage regulator . . . . .        | 176      | Westinghouse Awards . . . . .      | 360      | Wright, Jessie . . . . .          | 204     |
| Stanley, W. M. . . . .                | 323   | Thompson, E. S. . . . .                 | 134                                | von Euler, H. . . . .              | 118      | Wexler, Harry . . . . .            | 264      | Wright, Sewall . . . . .          | 343     |
| Staples . . . . .                     | 336   | Thompson, J. D. . . . .                 | 72                                 | Vonnegut, Bernard . . . . .        | 277      | Whaling, Japanese . . . . .        | 8        |                                   |         |
| Star . . . . .                        | 397   | Thompson, R. C. . . . .                 | 35                                 | Vorlander, Fred J. . . . .         | 228      | Wheatley, D. P. . . . .            | 357      |                                   |         |
| Star details . . . . .                | 71  | Thompson, R. G. . . . .                 | 299                                | VT fuze . . . . .                  | 293      | Wheatley, George M. . . . .        | 255      |                                   |         |
| Star map--58, 138, 202, 266, 346, 407 |   | Thompson, Warren S. . . . .             | 251                                |                                    |          | Wheeler, D. R. . . . .             | 45       | XB-35 Flying Wing . . . . .       | 243     |
| Star mystery, Antares . . . . .       | 130   | Thompson, Wells N. . . . .              | 183                                |                                    |          | Wheeler, Kenneth M. . . . .        | 316      | XB-47, jet bomber . . . . .       | 213     |
| Star, super-small . . . . .           | 188   | Thone, Frank . . . . .                  | 42, 154, 326, 378                  | Walker, Abraham . . . . .          | 372      | Whipple, George H. . . . .         | 148      | XB-48 jet bomber . . . . .        | 213     |
| Starch digestion . . . . .            | 152   | Thorium extraction . . . . .            | 120                                | Walker, Shepard M. . . . .         | 179      | Whipple, Fred L. . . . .           | 108      | XC-99 transport . . . . .         | 359     |
| Starlight measured . . . . .          | 200   | Thread magazine . . . . .               | 256                                | Wall, Clifford N. . . . .          | 344      | Whiskbrooms . . . . .              | 256      | XF9F-2 Panther . . . . .          | 387     |
| Stars, brilliance . . . . .           | 343   | Three-dimension pictures . . . . .      | 150                                | Wallace, W. S. . . . .             | 279      | White, Abraham . . . . .           | 246      | XF-87, Armyfighter . . . . .      | 179     |
| Stars, prominence . . . . .           | 172   | Throckmorton, T. D. . . . .             | 360                                | Wallinga, M. H. . . . .            | 152      | White, D. E. . . . .               | 279      | XS-1, research plane . . . . .    | 234     |
| Stars, Siamese twins . . . . .        | 232   | Thyratron tube . . . . .                | 240                                | Wallpaper . . . . .                | 400      | White, Paul D. . . . .             | 140      | XS-2, research plane . . . . .    | 234     |
| Star's speed . . . . .                | 386   | Thyroid extract . . . . .               | 359                                | Walston, H. D. . . . .             | 148      | Whiting, L. R. . . . .             | 4        | X-ray photometer . . . . .        | 412     |
| Stawicki, Sigmund . . . . .           | 228   | Tick fever . . . . .                    | 249                                | Wanamaker, W. W. . . . .           | 50       | Whittington, H. B. . . . .         | 377      | X-rays--170, 184, 297, 309        |         |
| Stebbins, Joel . . . . .              | 71  | Ticket machine . . . . .                | 384                                | Warburg, Otto . . . . .            | 116      | WHO . . . . .                      | 310      |                                   |         |
| Steel, cold-drawn . . . . .           | 139   | Tierkel, Ernest S. . . . .              | 133                                | Ward, Robert . . . . .             | 216      | Wild grapes . . . . .              | 206      | YB-49 Flying Wing . . . . .       | 243     |
| Stegeman, R. F. E. . . . .            | 63  | Tillyer, E. D. . . . .                  | 67                                 | Warner, Louise . . . . .           | 310      | Wilkinson, Hugh L. C. . . . .      | 215      | Yarn, fire-resistant . . . . .    | 412     |
| Steigman, A. J. . . . .               | 231   | Tippett, C. J. . . . .                  | 165                                | Warren, Shields . . . . .          | 148      | Williams, Clyde E. . . . .         | 151      | Yeagley, Henry L. . . . .         | 137     |
| Stephan, Frederick F. . . . .         | 67  | Tire inflator . . . . .                 | 16                                 | Warren, Stafford L. . . . .        | 148, 185 | Williams, F. J. . . . .            | 360      | Yellow jaundice in dogs . . . . . | 152     |
| Stephens, John Lloyd . . . . .        | 249   | Tire inspector . . . . .                | 367                                | Washer, synthetic rubber . . . . . | 240      | Williams, Helen S. . . . .         | 244      | York, Harvey . . . . .            | 259     |
| Stereospondyls' skulls . . . . .      | 133   | Tires, tubeless . . . . .               | 96                                 | Washing machine . . . . .          | 288      | Willis, Edwin R. . . . .           | 295      | Young, George A., Jr. . . . .     | 140     |
| Stevens, J. C. . . . .                | 60  | Tisdale, W. H. . . . .                  | 121                                | Waste heat boiler . . . . .        | 224      | Wilson, Ivan . . . . .             | 329      | Yu, Sung Ting . . . . .           | 116     |
| Stevens, S. Smith . . . . .           | 263   | Titanium night stones . . . . .         | 243                                | Water policy, national . . . . .   | 57       | Wilson, John L. . . . .            | 372      | Yutang, Lin . . . . .             | 151     |
| Stewart, H. W. . . . .                | 279   | Titanium . . . . .                      | 243                                | Water softener . . . . .           | 160      | Wilson, R. A. . . . .              | 236      |                                   |         |
| Stewart, Harold L. . . . .            | 265   | Toads, cancer free . . . . .            | 196                                | Water, "wetter" . . . . .          | 104      | Wilson, Wallace R. . . . .         | 21       |                                   |         |
| Stewart, Mabel O. . . . .             | 249   | Tobacco, Perique . . . . .              | 5                                  | Watson, Fletcher G. . . . .        | 3        | Wind tunnel device . . . . .       | 9        |                                   |         |
| Stewart, T. Dale . . . . .            | 3, 23, 68, 340                                  | Todd, A. R. . . . .                     | 53                                 | Watson, George W. . . . .          | 245      | Wind velocity instrument . . . . . | 280      |                                   |         |
| Stockings, G. Taylor . . . . .        | 53  | Todd, M. H. . . . .                     | 373                                | Watson, Paul D. . . . .            | 360      | Winnek, Douglas F. . . . .         | 150      | Zarem, A. M. . . . .              | 150     |
| Stokley, James . . . . .              | 58, 138, 202, 266, 346                          | Tongue depressor . . . . .              | 272                                | Watson, William W. . . . .         | 217      | Wire, electroplated . . . . .      | 117      | Zato index . . . . .              | 214     |
| Stomachs, women's . . . . .           | 179   | Tool, five-in-one . . . . .             | 128                                | Watter, Michael . . . . .          | 124      | Wirtanen, C. A. . . . .            | 217      | Zeissig, A. . . . .               | 316     |
| Stone, Robert S. . . . .              | 228   | Tool, plumbing . . . . .                | 96                                 | Wayave, Theodore M. . . . .        | 125      | Wischhusen, J. F. . . . .          | 232      | Zeller, William W. . . . .        | 210     |
| Stopper for bottles . . . . .         | 367   | Tooth decay . . . . .                   | 296                                | Weather . . . . .                  | 249      | Withrow, R. B. . . . .             | 154      | Zenzen, Alexander M. . . . .      | 297     |
| Storage battery . . . . .             | 352   | Topcaine anesthetic . . . . .           | 107                                | Weather forecast . . . . .         | 200      | Woernley, D. L. . . . .            | 217      | Zimmerman, E. F. . . . .          | 373     |
| Storm windows, aluminum . . . . .     | 48  | Topping, Norman H. . . . .              | 14                                 | Weather stations . . . . .         | 298      | Wolfe, Don M. . . . .              | 14       | Zinsser, John S. . . . .          | 45      |
| Stouffer, Samuel A. . . . .           | 67  | Topsoil selling . . . . .               | 158                                | Wedel, Waldo R. . . . .            | 377      | Wolff, Arthur H. . . . .           | 132, 316 | Zipkin, Isadore . . . . .         | 296     |
| Strecker, Edward . . . . .            | 43  | Torkelson, M. W. . . . .                | 50                                 | Weinberg, M. . . . .               | 55       | Womack, S. H. J. . . . .           | 280      | Zirkle, Raymond . . . . .         | 148     |
| Street lamp, prismatic . . . . .      | 128   | Torpidity in birds . . . . .            | 281                                | Weiss, Paul . . . . .              | 57, 340  | Wong, Sam C. . . . .               | 322      | ZoBell, Claude E. . . . .         | 68, 376 |
| Strength loss . . . . .               | 278   | Trace elements . . . . .                | 222                                | Weiss, S. . . . .                  | 201      | Wood, Harlan G. . . . .            | 84       | Zoo animals . . . . .             | 24, 357 |
| Strength tester . . . . .             | 304   | Tracer elements . . . . .               | 222                                | Weisskopf, Victor F. . . . .       | 217      | Wood decay . . . . .               | 57       | Zubin, Joseph . . . . .           | 303     |
| Streptomycin . . . . .                | 36, 104, 167, 194, 200, 229, 231, 357, 371, 374 | Transformers . . . . .                  | 288                                | Weissler, Alfred . . . . .         | 279      | Woods, Robert P. . . . .           | 404      | Zwicky, F. . . . .                | 44      |
| Stress . . . . .                      | 245   | Transmissometer . . . . .               | 296                                |                                    |          |                                    |          |                                   |         |
| Struve, Otto . . . . .                | 130, 172  | Transonic flying . . . . .              | 234                                |                                    |          |                                    |          |                                   |         |
| Studier, Martin . . . . .             | 101   | Travis, Bernard V. . . . .              | 311                                |                                    |          |                                    |          |                                   |         |
| Stutzman, L. F. . . . .               | 56  | Tray, ice-cube . . . . .                | 320                                |                                    |          |                                    |          |                                   |         |
| Subbarrow, Y. . . . .                 | 279   | Tray, plastic . . . . .                 | 32                                 |                                    |          |                                    |          |                                   |         |
| Submarines, fastest . . . . .         | 39  | Trefonol, E. . . . .                    | 409                                |                                    |          |                                    |          |                                   |         |
| Subtilin . . . . .                    | 322   | Truman, Harry S. . . . .                | 99, 165                            |                                    |          |                                    |          |                                   |         |
| Sugar beets stored cold . . . . .     | 169   | Truax, Wayne E. . . . .                 | 194                                |                                    |          |                                    |          |                                   |         |
| Sugar dispenser . . . . .             | 240   | Tuberculosis . . . . .                  | 170, 194, 230, 293, 318, 322, 371  |                                    |          |                                    |          |                                   |         |
| Sugar from cellulose . . . . .        | 201   | Tschopik, Harry, Jr. . . . .            | 40                                 |                                    |          |                                    |          |                                   |         |
| Sugar from cornstalks . . . . .       | 295   | Tumor . . . . .                         | 373                                |                                    |          |                                    |          |                                   |         |
| Sugarman, Marcus H. . . . .           | 312   | Tunnel, Alva B. Adams . . . . .         | 21                                 |                                    |          |                                    |          |                                   |         |
| Sulfa . . . . .                       | 143, 200  | Turner, Arthur W. . . . .               | 188                                |                                    |          |                                    |          |                                   |         |
| Sullivan, Harry Stack . . . . .       | 329   | Turner, Richard B. . . . .              | 180                                |                                    |          |                                    |          |                                   |         |
| Summer, J. B. . . . .                 | 323   | Turner, J. R. . . . .                   | 236                                |                                    |          |                                    |          |                                   |         |
| Sun, Kuan-Han . . . . .               | 136   | Tuttle, O. F. . . . .                   | 386                                |                                    |          |                                    |          |                                   |         |
| Sun, life limited . . . . .           | 328   | Tuve, Merle A. . . . .                  | 344                                |                                    |          |                                    |          |                                   |         |
| Sun's energy . . . . .                | 164   | 2,4-D . . . . .                         | 21, 52, 66, 69, 115, 130, 182, 248 |                                    |          |                                    |          |                                   |         |
| Sun's radiation . . . . .             | 263   | Typewriter, Chinese . . . . .           | 151                                |                                    |          |                                    |          |                                   |         |
| Sunlamp . . . . .                     | 288   | Typewriter lamp . . . . .               | 80                                 |                                    |          |                                    |          |                                   |         |
| Sunspot maximum . . . . .             | 25  | Tyrosine . . . . .                      | 345                                |                                    |          |                                    |          |                                   |         |
| Supersonic flight . . . . .           | 23  | Tyrrell, G. W. . . . .                  | 24                                 |                                    |          |                                    |          |                                   |         |
| Supersonics, inspection by . . . . .  | 166   |   |                                    |                                    |          |                                    |          |                                   |         |
| Supple, George C. . . . .             | 174   | Ulke, Titus . . . . .                   | 263                                |                                    |          |                                    |          |                                   |         |
| Surface finish . . . . .              | 96  | Ultrasonic waves . . . . .              | 184                                |                                    |          |                                    |          |                                   |         |
| Swales, W. E. . . . .                 | 152   | Undulant fever . . . . .                | 86, 309                            |                                    |          |                                    |          |                                   |         |
| Swanson, C. L. W. . . . .             | 233   | UNESCO 35, 307, 322, 344, 406           |                                    |                                    |          |                                    |          |                                   |         |
| Swope, Robert E. . . . .              | 130   | Utensils, cooking . . . . .             | 367                                |                                    |          |                                    |          |                                   |         |
| Synthetic crystals . . . . .          | 198   |   |                                    |                                    |          |                                    |          |                                   |         |
| Synthetic gas . . . . .               | 232   | V-2 rocket . . . . .                    | 146, 184                           |                                    |          |                                    |          |                                   |         |
| Synthetic gems . . . . .              | 243   | VA heart center . . . . .               | 253                                |                                    |          |                                    |          |                                   |         |
|                                       |   | Vaccine . . . . .                       | 309                                |                                    |          |                                    |          |                                   |         |
| Taggart, S. Ross . . . . .            | 210   | Valve regulator . . . . .               | 288                                |                                    |          |                                    |          |                                   |         |
| Tank truck . . . . .                  | 62  | Van Allen, W. A. . . . .                | 89, 146                            |                                    |          |                                    |          |                                   |         |
| Tantalum gauze . . . . .              | 360   | Van de Water, Marjorie . . . . .        | 250                                |                                    |          |                                    |          |                                   |         |
| Tapeworms . . . . .                   | 312   | Van Middlesworth, L. . . . .            | 228                                |                                    |          |                                    |          |                                   |         |
| Tauch, Ernest J. . . . .              | 388   | Van Nuys, C. C. . . . .                 | 24                                 |                                    |          |                                    |          |                                   |         |
| Teachers, shortage of . . . . .       | 3   | van Oordt, G. J. . . . .                | 229                                |                                    |          |                                    |          |                                   |         |
| Teeth protection . . . . .            | 252   | Van Overbeek, J. . . . .                | 168                                |                                    |          |                                    |          |                                   |         |
| Teeth replanting . . . . .            | 105   | Vaporizing device . . . . .             | 144                                |                                    |          |                                    |          |                                   |         |
| Telegram relay system . . . . .       | 47  | Vavilov, Serge . . . . .                | 334                                |                                    |          |                                    |          |                                   |         |
| Telephone circuits . . . . .          | 198   | Vender, soft drink . . . . .            | 112                                |                                    |          |                                    |          |                                   |         |
| Telephone handset . . . . .           | 320   | Vertigo . . . . .                       | 374                                |                                    |          |                                    |          |                                   |         |
| Telephones on trains . . . . .        | 103   | VHF transmitter . . . . .               | 224                                |                                    |          |                                    |          |                                   |         |
| Telephony by light beam . . . . .     | 217   | Vibrator, electric . . . . .            | 192                                |                                    |          |                                    |          |                                   |         |
| Telescope on gun . . . . .            | 312   | Vinegar . . . . .                       | 69                                 |                                    |          |                                    |          |                                   |         |
| mount . . . . .                       | 239, 312  | Virus "tagged" . . . . .                | 102                                |                                    |          |                                    |          |                                   |         |
| Telescopes . . . . .                  | 40, 137, 358                                    | Viruses protect plants . . . . .        | 56                                 |                                    |          |                                    |          |                                   |         |
| Television . . . . .                  | 160, 182, 184, 328                              | Vise, solid bronze . . . . .            | 176                                |                                    |          |                                    |          |                                   |         |
| Telfer, James G. . . . .              | 355   | Visibility meter . . . . .              | 112                                |                                    |          |                                    |          |                                   |         |
| Telkes, Maria . . . . .               | 315   | Vision training device . . . . .        | 64                                 |                                    |          |                                    |          |                                   |         |
| Teller, Edward . . . . .              | 6   | Vitamin C . . . . .                     | 134                                |                                    |          |                                    |          |                                   |         |
| Templeton, D. H. . . . .              | 181   | Vitamin chemical H . . . . .            | 191                                |                                    |          |                                    |          |                                   |         |
| Temperatures, extreme low . . . . .   | 136   | Vitamin D . . . . .                     | 72                                 |                                    |          |                                    |          |                                   |         |
| Tepexpan man . . . . .                | 3, 22, 68, 279, 340                             | Vitamin increase studied . . . . .      | 199                                |                                    |          |                                    |          |                                   |         |
| Tesluk, H. . . . .                    | 167   | Vitamin K . . . . .                     | 357                                |                                    |          |                                    |          |                                   |         |
| Tester, vest-pocket . . . . .         | 400   | Vitamin K, synthetic . . . . .          | 120                                |                                    |          |                                    |          |                                   |         |
| Tetanus toxoid . . . . .              | 404   | Vitamin "X" in milk . . . . .           | 199                                |                                    |          |                                    |          |                                   |         |
| Therien, Mercedes . . . . .           | 134   | Vocabulary building, children . . . . . | 70                                 |                                    |          |                                    |          |                                   |         |

**Keep your copies of SCIENCE NEWS LETTER safe and sound in our special binder . . .**

With SCIENCE NEWS LETTER stamped in gold on front and spine, this excellent buff buckram binder costs \$2.50 postpaid. Snap new issues into the cover with a little unbreakable hooked wire. Remove any issue you desire and reinsert it just as easily.

In case you have lost or damaged any back issue of the SCIENCE NEWS LETTER, or if the children have clipped it for their school notebooks, we will replace it to make your file complete—price 15 cents a copy (25 cents if over six months old). The binder holds 26 copies, opens freely, allows pages to lie flat, is strong enough to last for years.

We will refund your money if you are not satisfied. Send check or money order to

**SCIENCE NEWS LETTER, 1719 N Street, N. W., Washington 6, D. C.**

| ERRATA, Vol. 52, Nos. 1-26, July-December, 1947 |                           |   |
|---|---------------------------|---|
| PAGE  | TITLE BEGINS              | CORRECTION  |
| 21  | Dandelion Survivors       | Col. 3, line 20, <i>fascas</i> for <i>faces</i> .   |
| 23  | Radar Now                 | Line 1, Radio direction finding for radar. Par. 2, lines 1 and 2 <i>should read</i> Radar can pick up thunderclouds. Line 4, The direction finder is <i>for</i> It is also. |
| 34  | Inhaling Amyl Nitrite     | Line 2, title, <i>Siege</i> for <i>Seige</i> .  |
| 68  | Cancer Weapon Hunt        | Par. 4, line 5, <i>delete</i> to the treatment. <i>Insert</i> in the prophylactic or therapeutical treatment of cancer. Last line, <i>Frederick</i> for <i>Frank</i> .      |
| 78  | Sweeter Sweetcorn         | Col. 2, line 13, <i>delete</i> Their sugar content increases during the ripening process.   |
| 108   | 1947 Record Comet Year    | Line 6, <i>delete</i> new.  |
| 117   | Caption                   | For steam shovel read excavator.  |
| 140   | Deaths from Clots         | Line 1, after embolism <i>insert</i> in medical patients.   |
| 163   | Cell Shell Is Cancer Clue | Par. 3, line 3, <i>Aug.</i> for <i>Sept.</i>  |
| 198   | New Uses for Sand         | Siloxane ring is analogous to paraldehyde ring.   |
| 215   | Big Fans Protect Fruit    | Par. 2, line 4, <i>Oxnard</i> for <i>Oxford</i> .   |
| 240   | Thyratron Tube            | Line 1, mercury vapor for vacuum.   |
| 260   | War on Cholera            | Par. 2, lines 4-5, <i>Nasis Bey</i> for <i>Dr. Bey</i> .  |
| 267   | No Planets in Evening     | Col. 2, lines 4-5, 3:48 p.m. for 10:48 a.m. and 2:21 p.m. for 9:21 a.m.   |
| 295   | Cornstalks Yield Sugar    | Par. 4, line 3, <i>read</i> been discarded as <i>for</i> never been considered.   |
| 386   | Find Clue                 | Col. 2, line 7, 4,000 for 5,500.  |