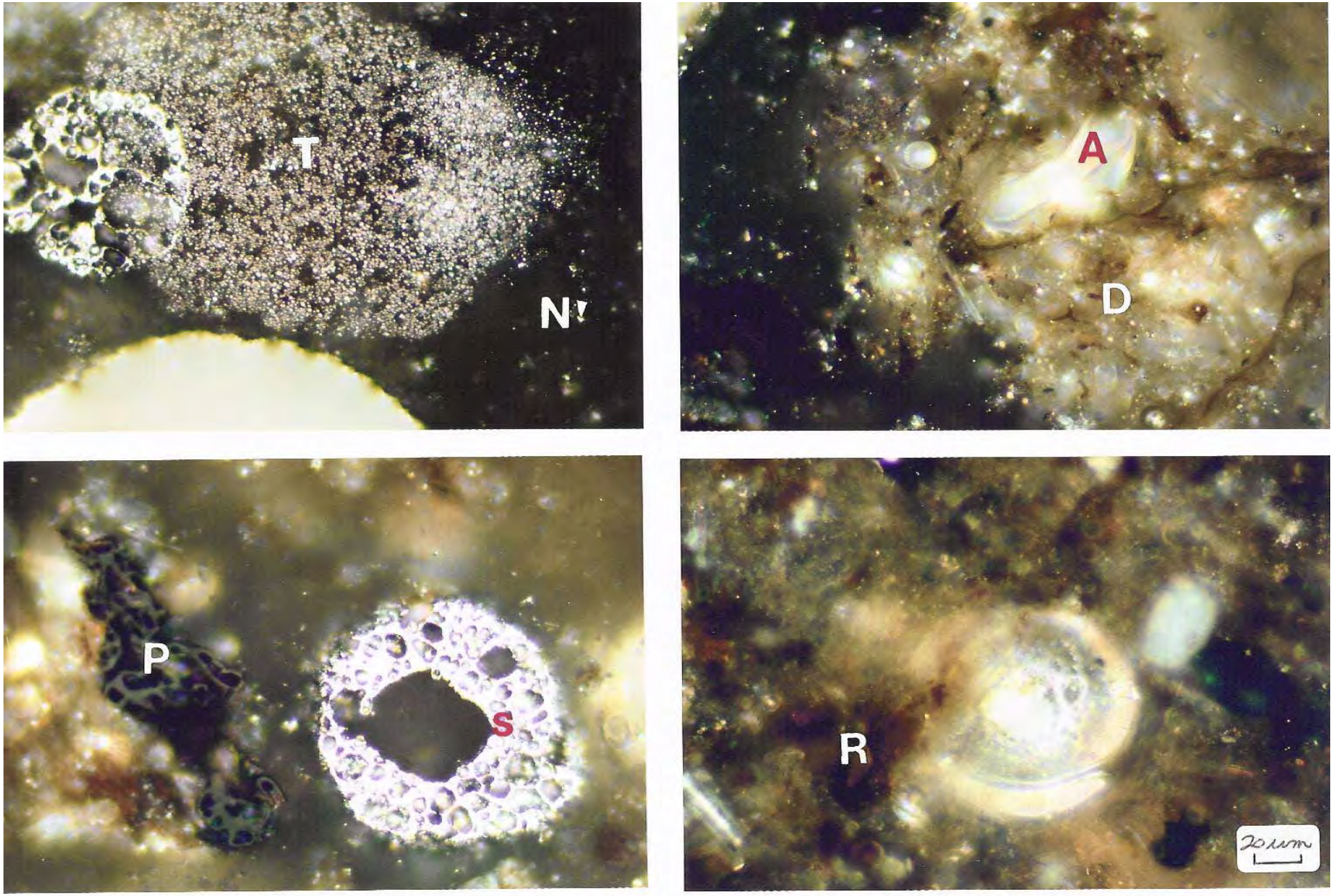

Figure 8: **Photomicrographs of Stanford's Sample Labeled NLU-45DC Showing; T=Pitch with High Normal QI, N=Individual QI, P=Cellular Organic Plant Material, R=Particulate Plant, D=Diatomaceous Mass, A=Diatom and S=Cenosphere. Reflected Light In Oil, X600.**

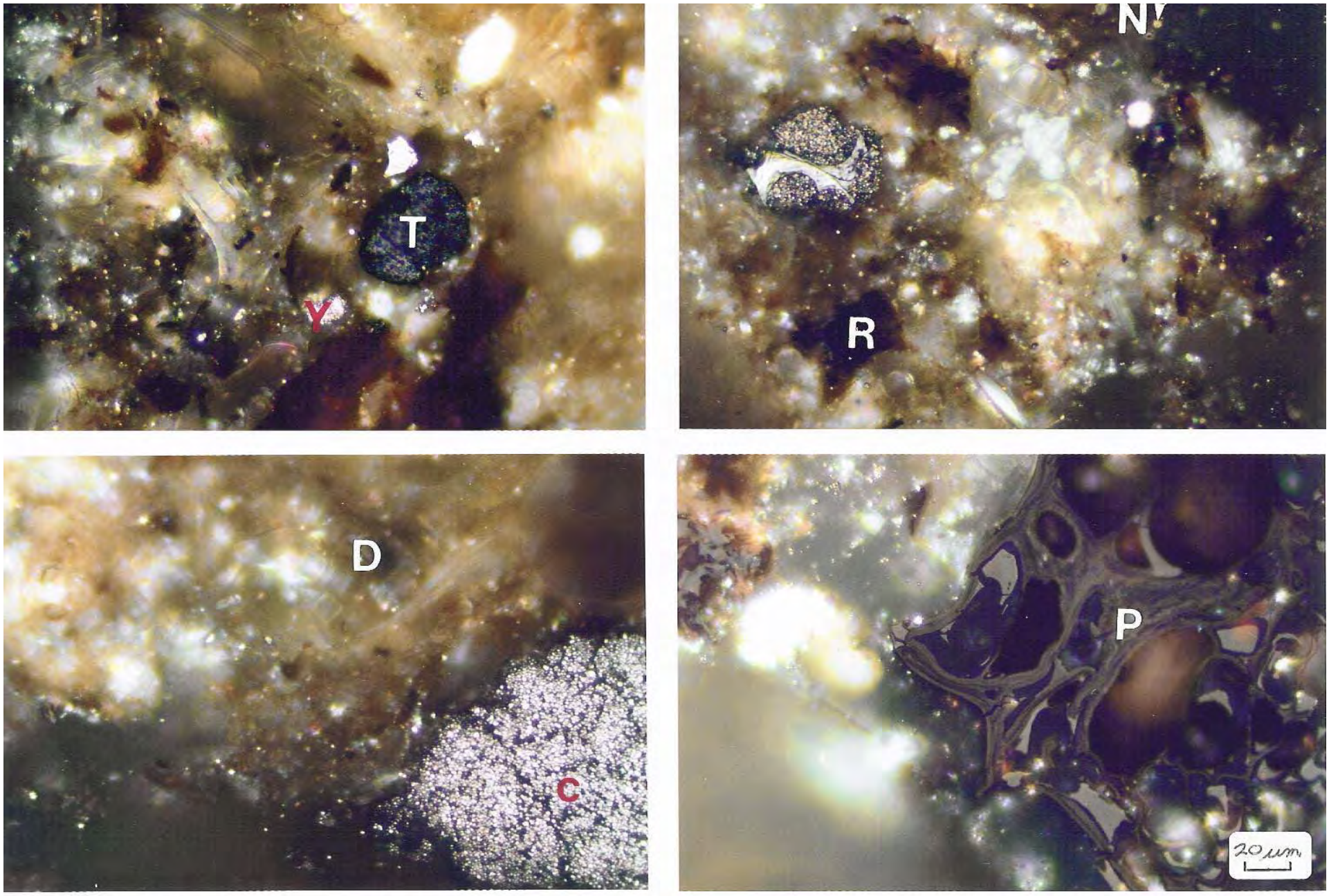

Figure 9: **Photomicrographs of Stanford's Sample Labeled NLU-45DC Showing; C=Carbon Black Aggregate, T=Pitch with Normal QI, N=Individual QI, P=Cellular Organic Plant Material, R=Particulate Plant, D=Diatomaceous Mass, A=Diatom and Y=Pyrite. Reflected Light In Oil, X600.**

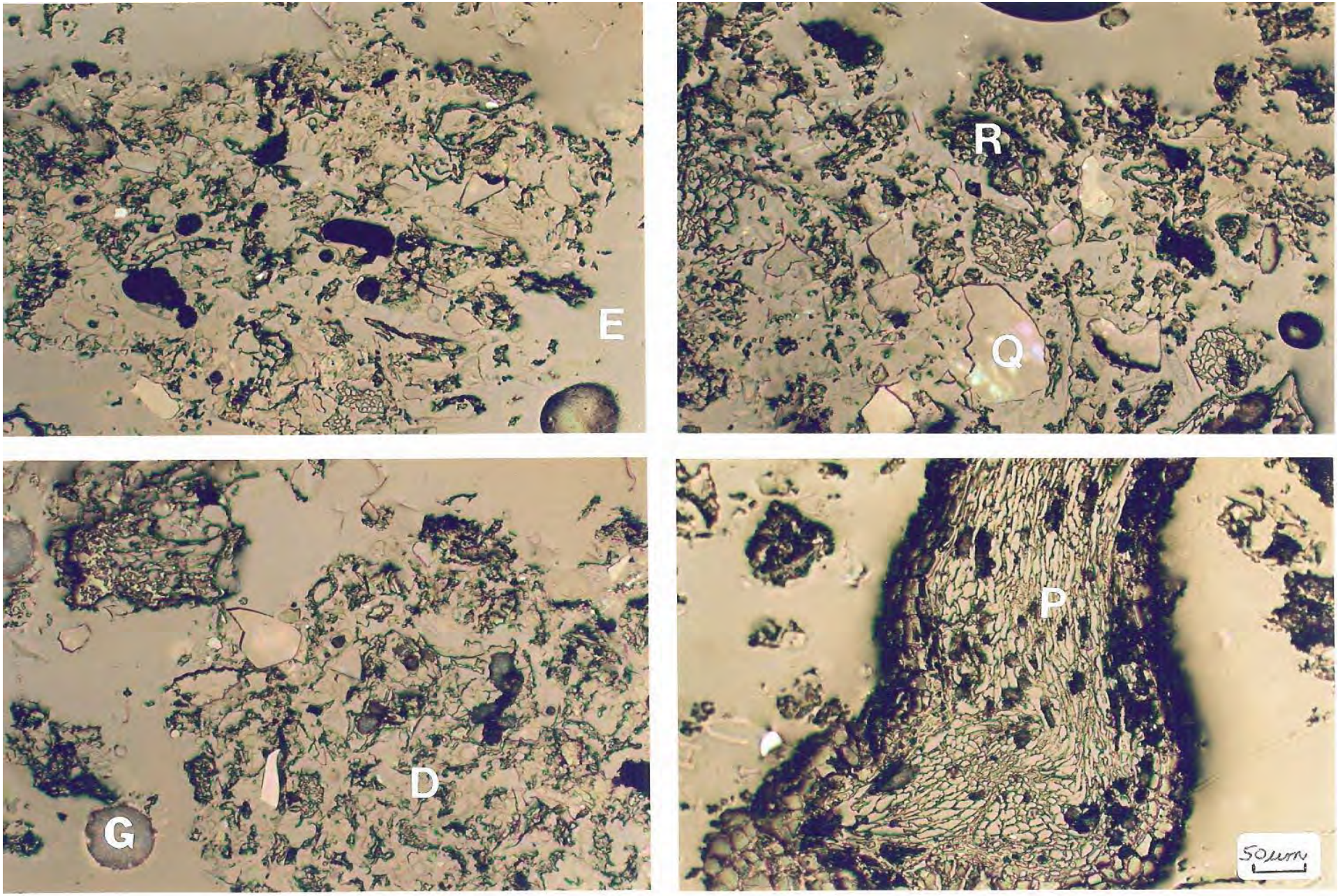

Figure 10: **Photomicrographs of Stanford's Sample Labeled NLU-54 Showing; P=Cellular Organic Plant Material, R=Particulate Plant, D=Diatomaceous Mass, G=Grainy Mineral, Q=Quartz (angular) and E=Epoxy Mounting Media. Reflected Light In Air, X250.**

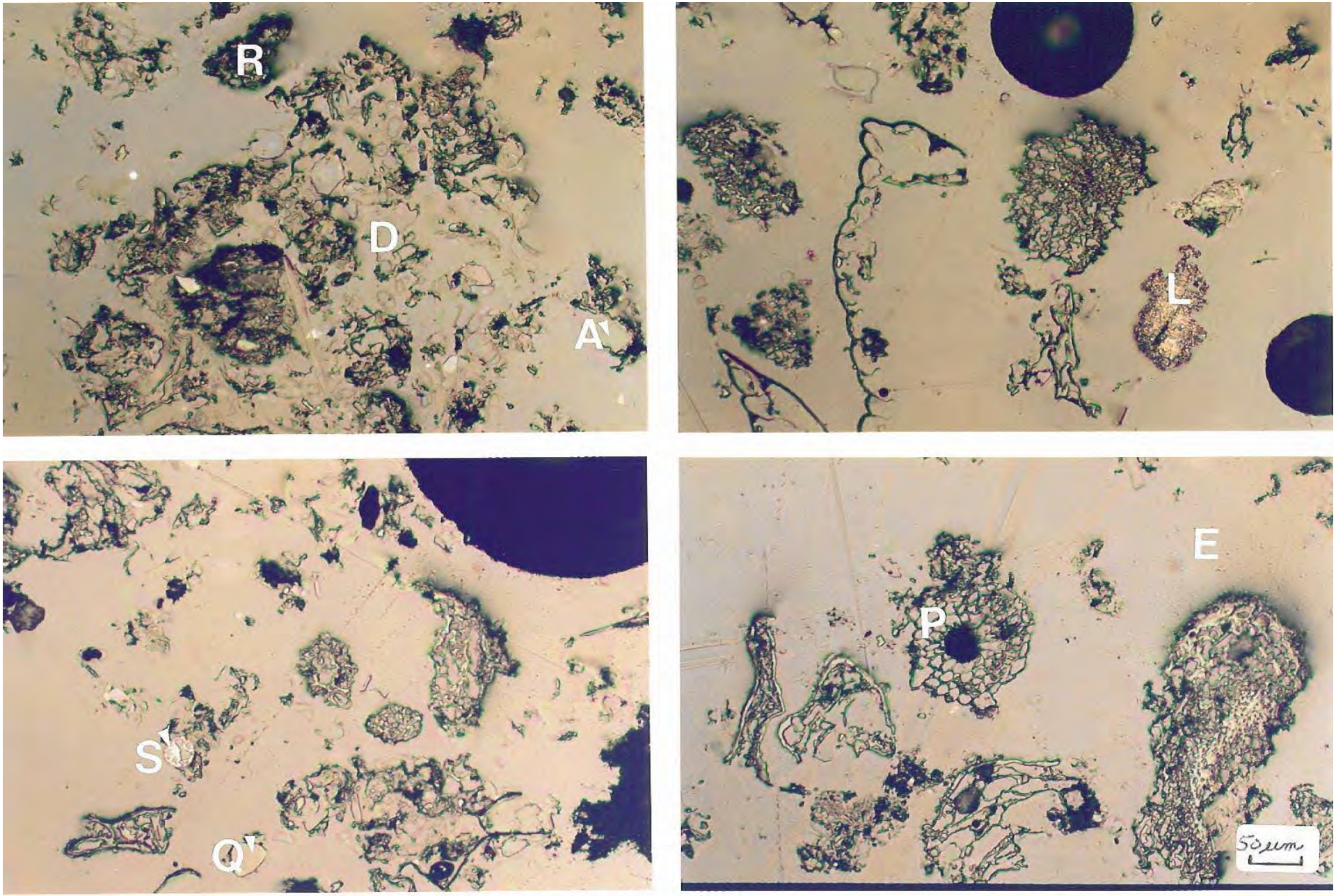

Figure 11: **Photomicrographs of Stanford's Sample Labeled NLU-54 Showing; L=Loose Carbon Aggregate, P=Cellular Organic Plant Material, R=Particulate Plant, D=Diatomaceous Mass, A=Diatom, S=Cenosphere, Q=Quartz (angular) and E=Epoxy Mounting Media. Reflected Light In Air, X250.**

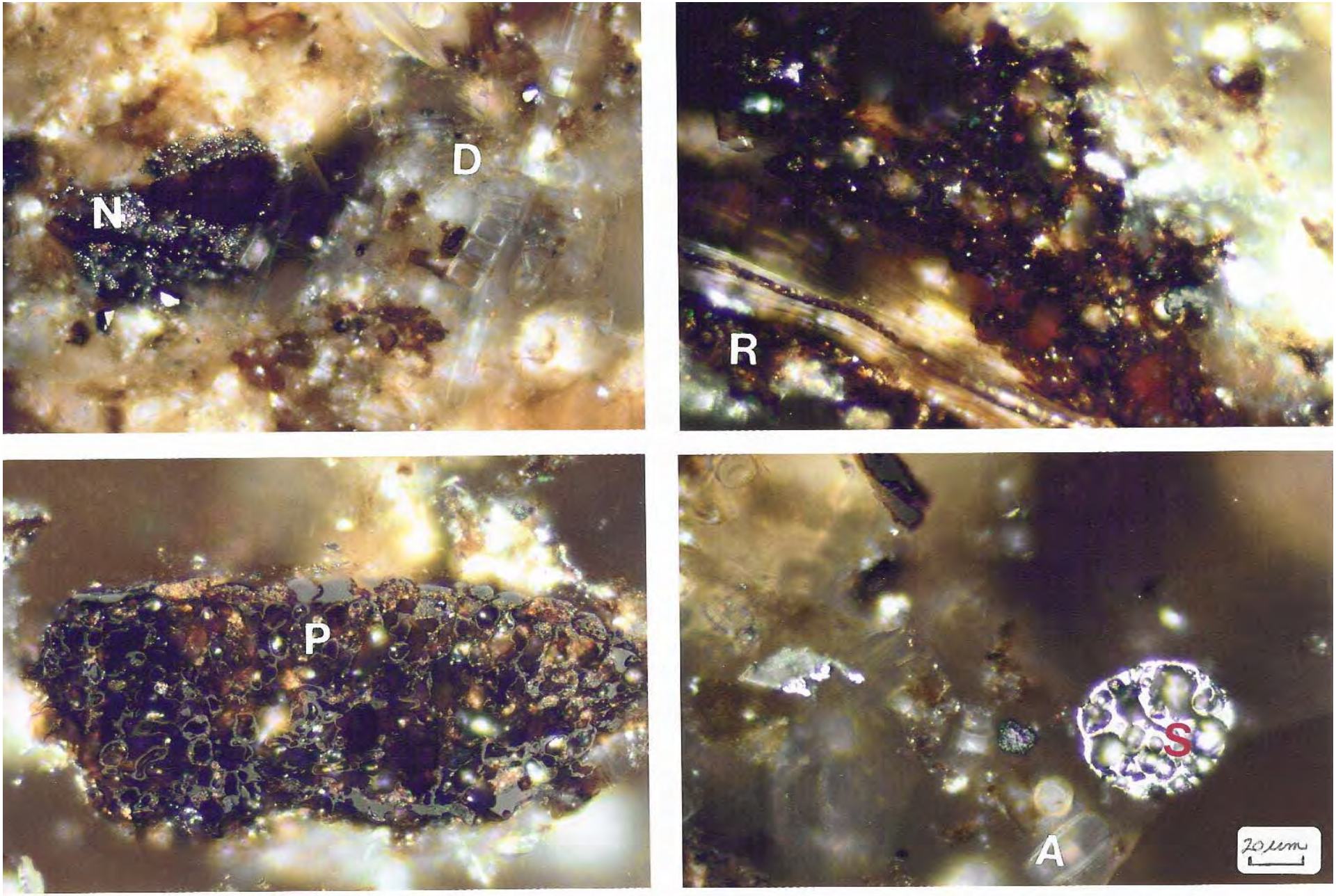

Figure 12: Photomicrographs of Stanford's Sample Labeled NLU-54 Showing; N=Individual QI or Small Aggregate, P=Cellular Organic Plant Material, R=Particulate Plant, D=Diatomaceous Mass, A=Diatom and S=Cenosphere. Reflected Light In Oil, X600.

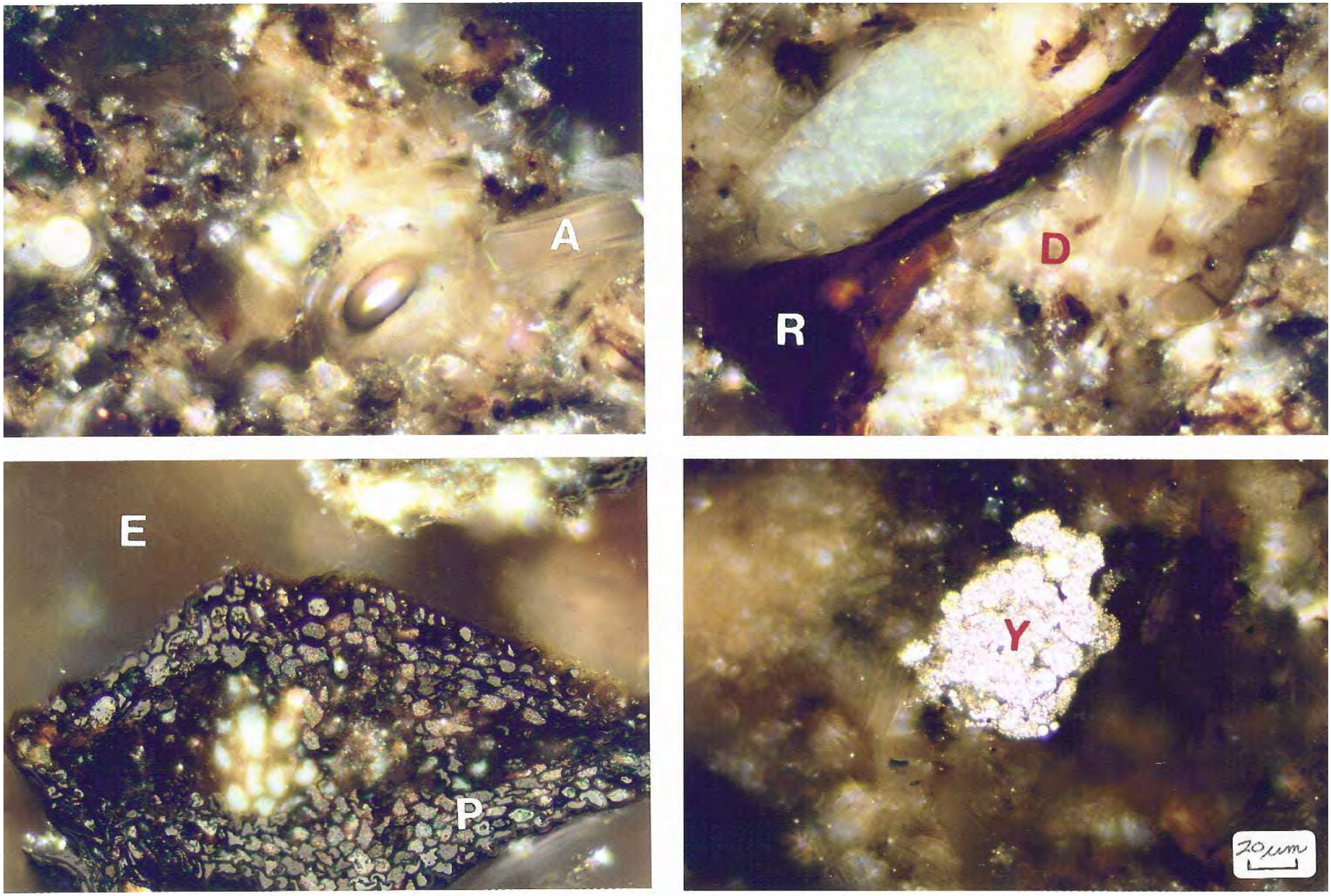

Figure 13: **Photomicrographs of Stanford's Sample Labeled NLU-54 Showing; P=Cellular Organic Plant Material, R=Particulate Plant, D=Diatomaceous Mass, A=Diatom, Y=Pyrite and E=Epoxy Mounting Media. Reflected Light In Oil, X600.**

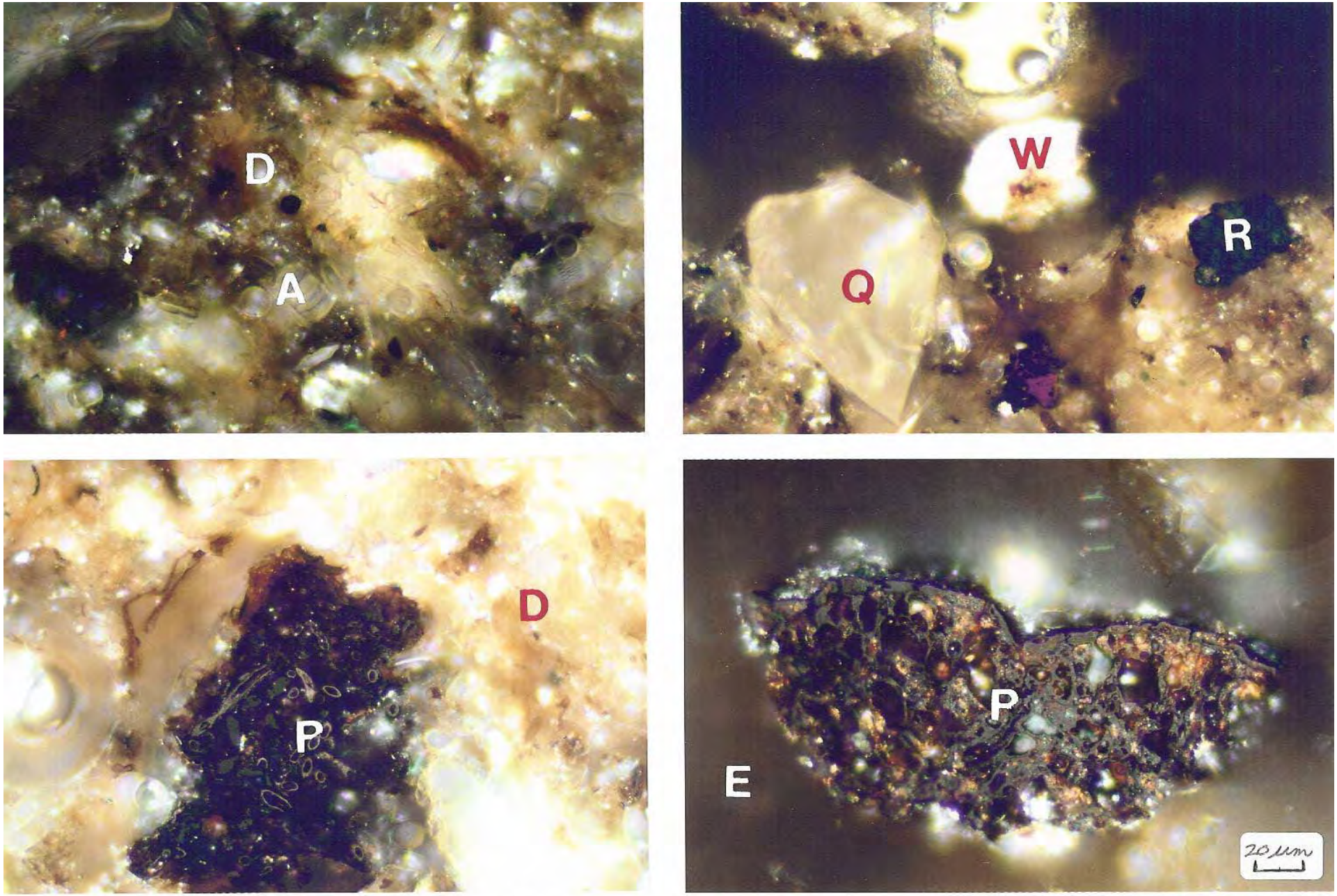

Figure 14: **Photomicrographs of Stanford's Sample Labeled NLU-54 Showing; P=Cellular Organic Plant Material, R=Particulate Plant, D=Diatomaceous Mass, A=Diatom, Q=Quartz, W=White Grainy Mineral and E=Epoxy Mounting Media. Reflected Light In Oil, X600.**

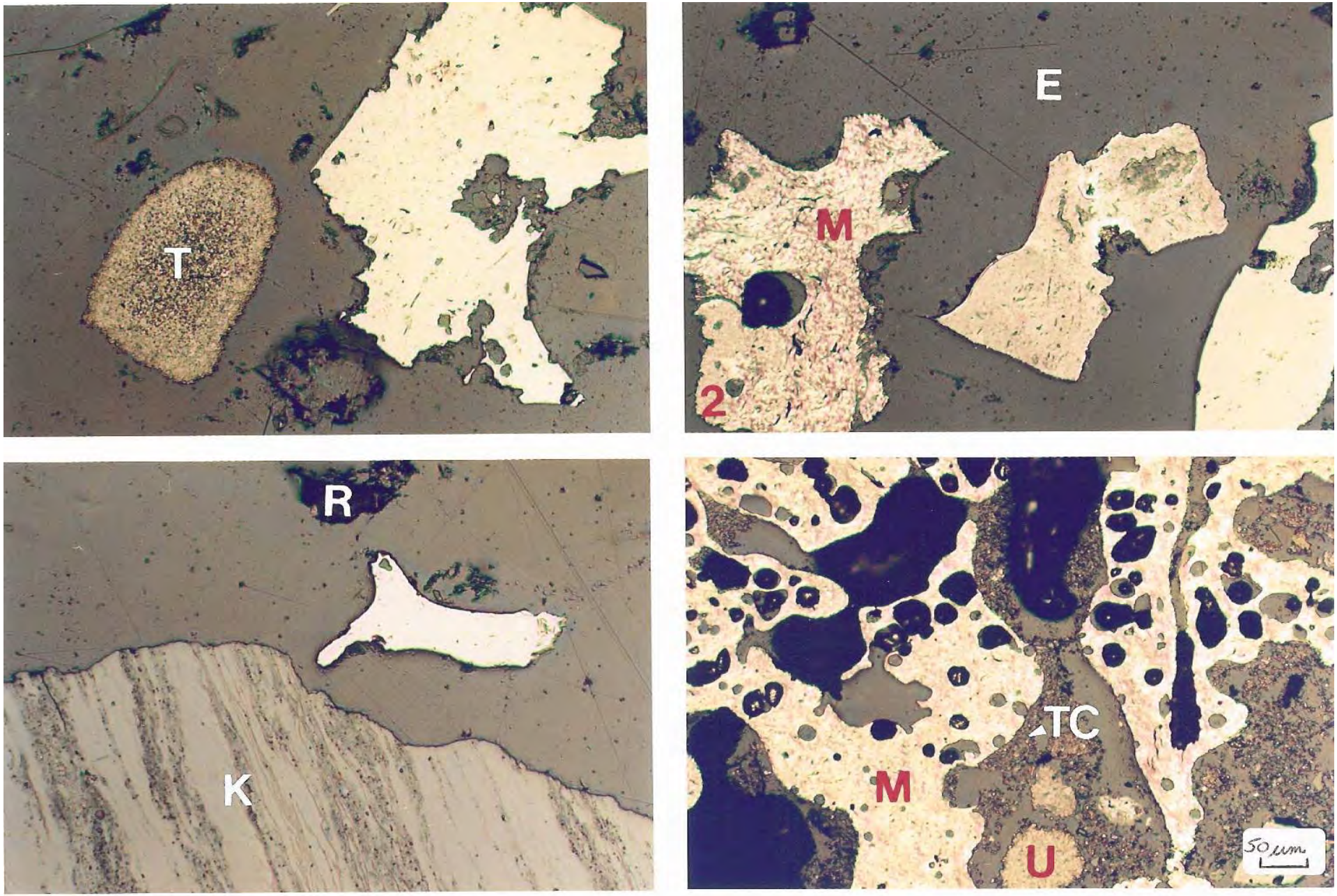

Figure 15: **Photomicrographs of Stanford's Sample Labeled NLU-55 Showing; T=Pitch with High QI, TC=Pitch Coating Coke, R=Particulate Plant, M=Metallurgical Coke, U=Spherulytic Carbon, K=Coal and E=Epoxy Mounting Media. Photo 2 is Three different Kinds of Coke. Reflected Light In Air, X250.**

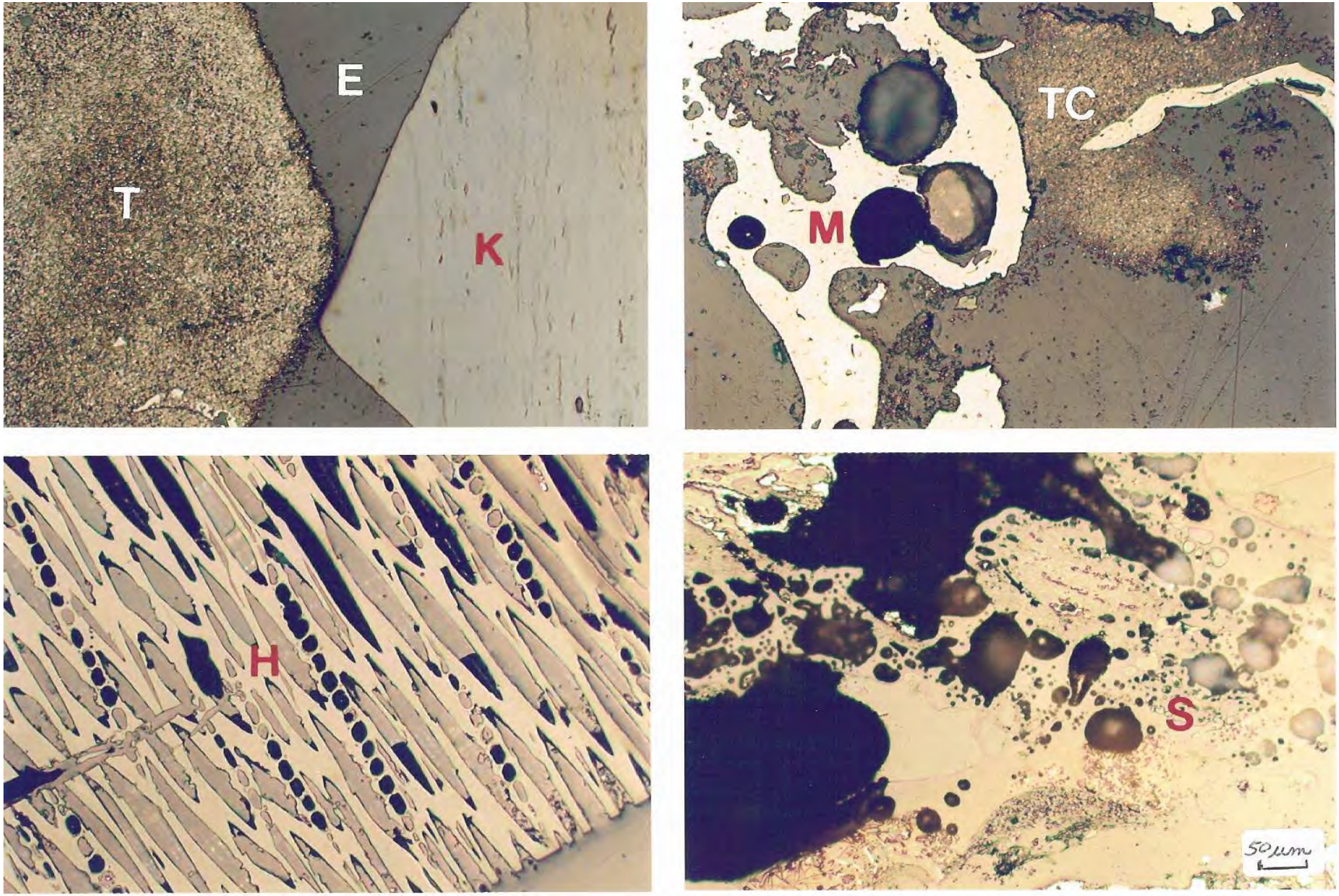

Figure 16: **Photomicrographs of Stanford's Sample Labeled NLU-55 Showing; T=Pitch with High QI, TC=Pitch Coating Coke, M=Metallurgical Coke, H=Charcoal, K=Coal, S=Slag and E=Epoxy Mounting Media. Reflected Light In Air, X250.**

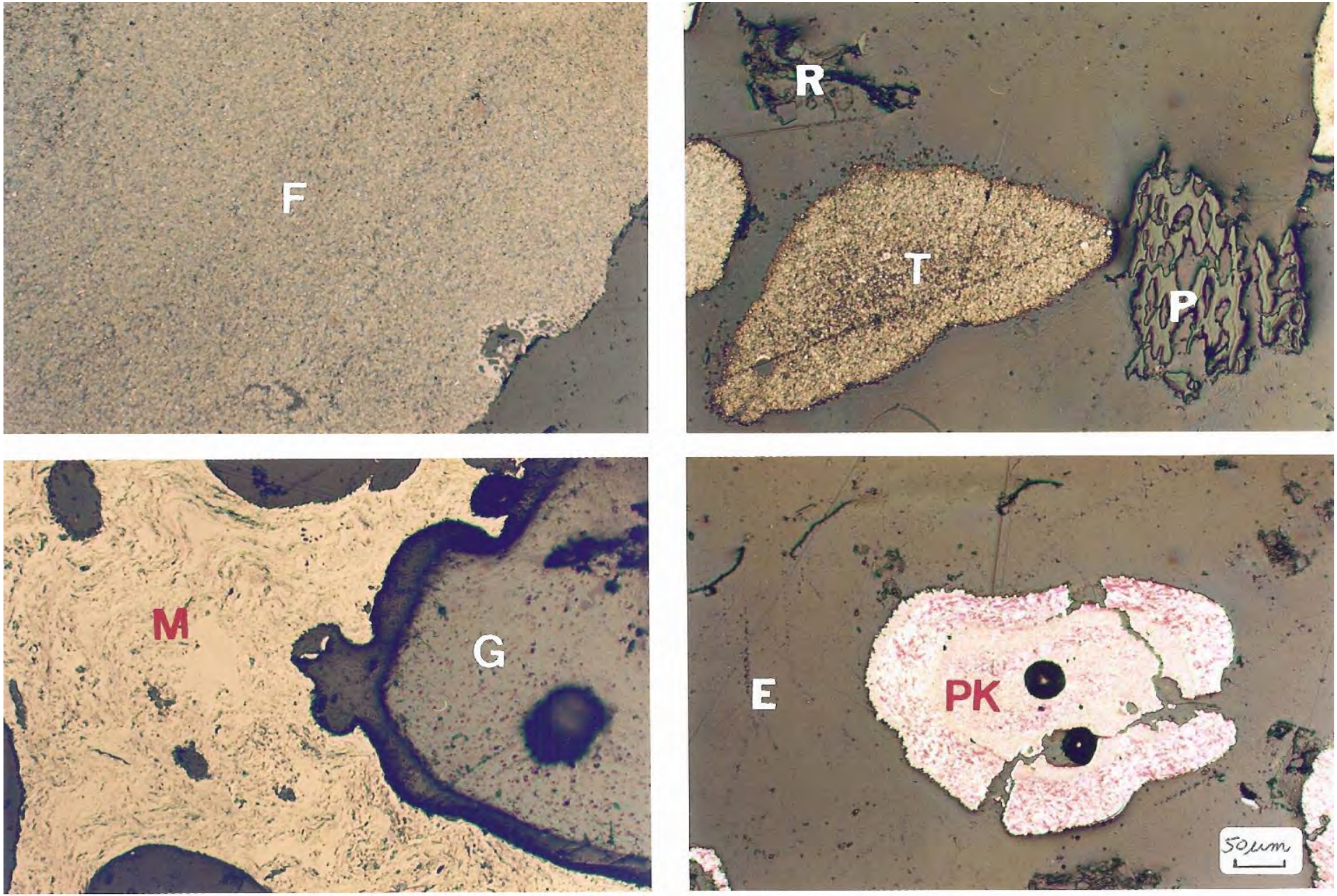

Figure 17: Photomicrographs of Stanford's Sample Labeled NLU-55 Showing; F=Fine Sized Carbon Black Aggregate, T=Pitch with High QI, P=Cellular Plant, R-Particulate Plant, M=Metallurgical Coke, G=Green Coke, PK=Pitch Coke and E=Epoxy Mounting Media. Reflected Light In Air, X250.

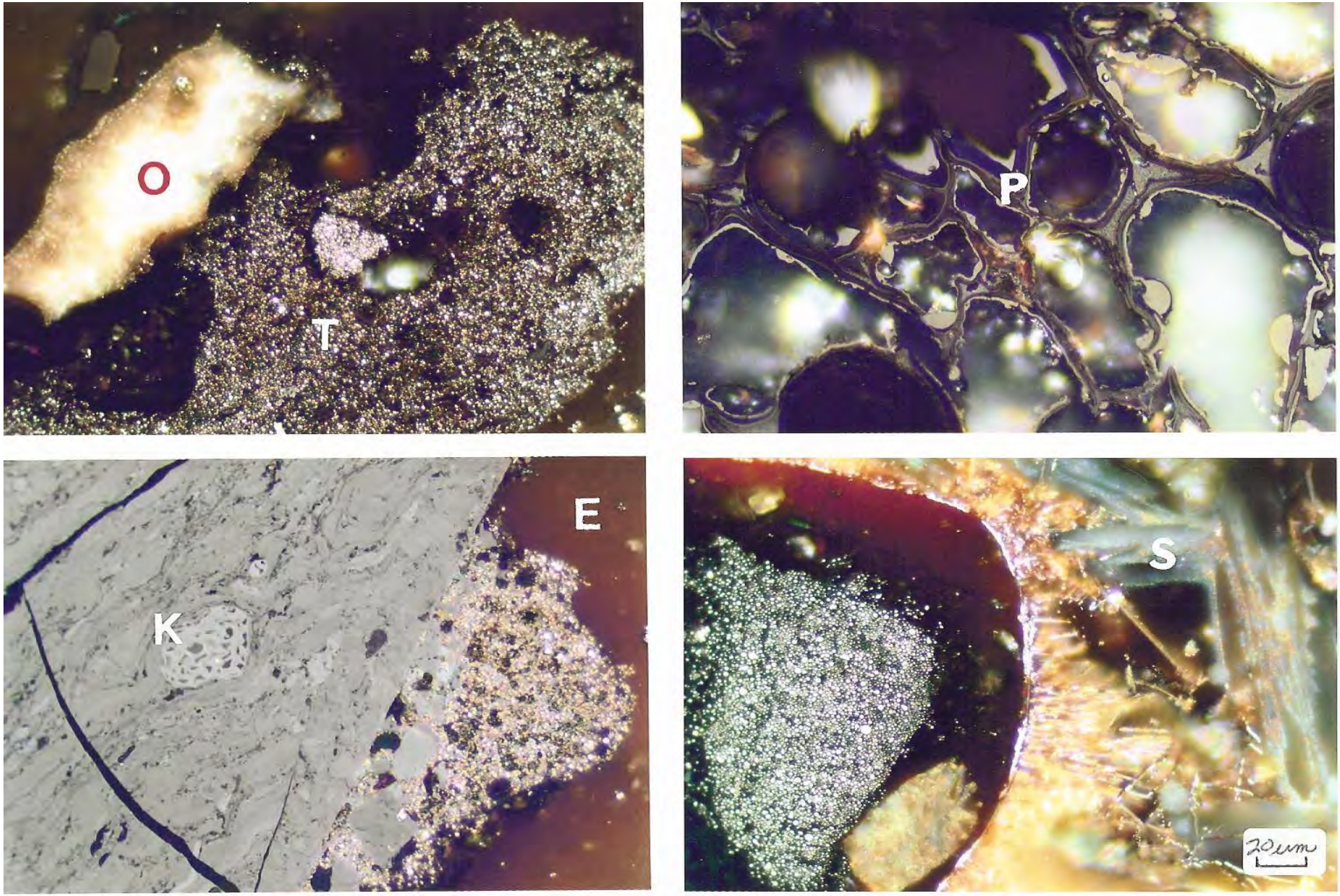

Figure 18: **Photomicrographs of Stanford's Sample Labeled NLU-55 Showing; T=Pitch with High QI, P=Cellular Organic Plant Material, K=Coal, S=Slag, O=Other Mineral Matter and E=Epoxy Mounting Media. Reflected Light In Oil, X600.**

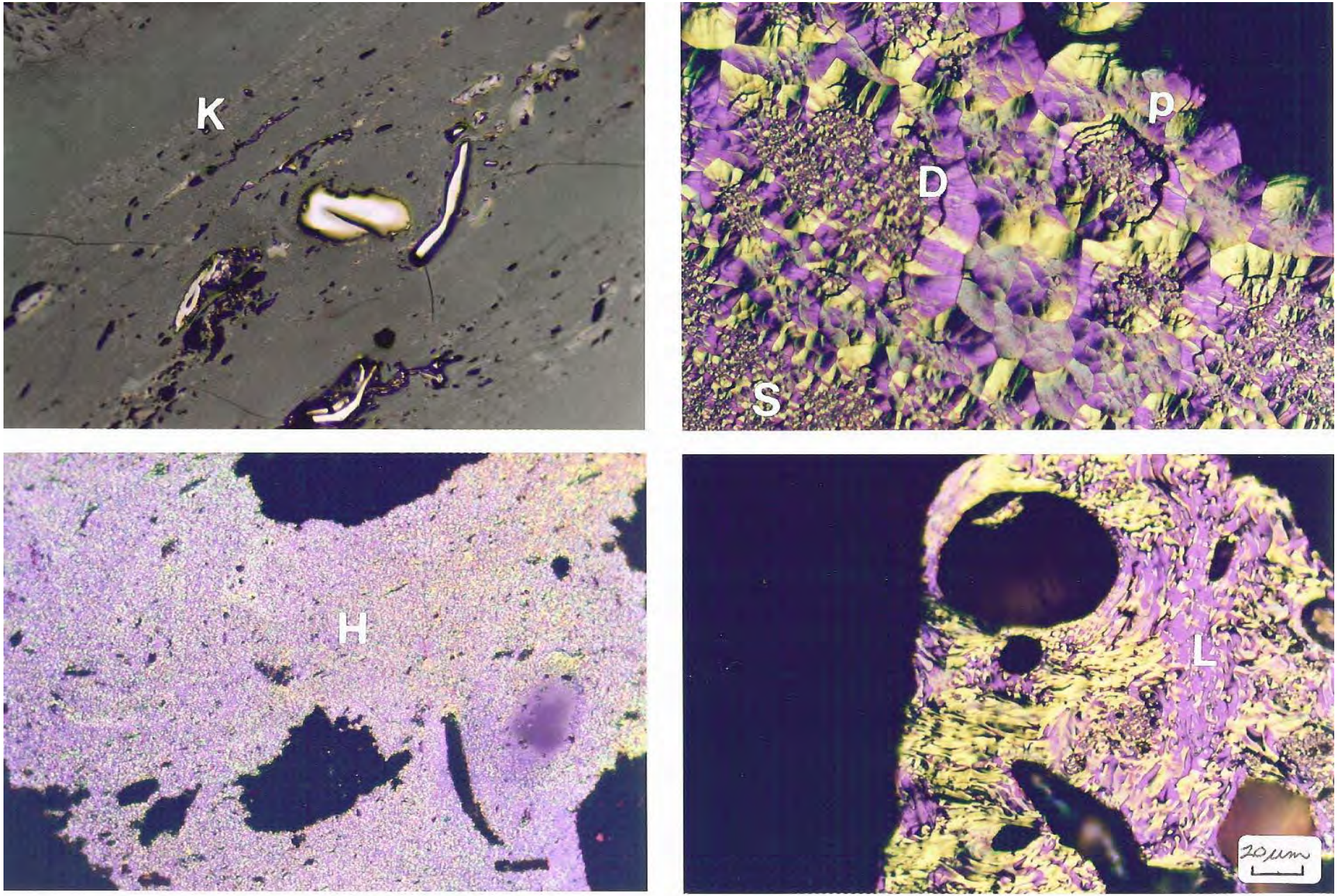

Figure 19: Photomicrographs of Stanford's Sample Labeled NLU-55 Showing; K=Coal, D=Depositional Carbon with (P=pyrolytic and S=spherulytic), H=Meturallurgical Coke From High Volatile Coal and L=Meturallurgical Coke From Low Volatile Coal. Reflected Polarized Light In Oil, X600.

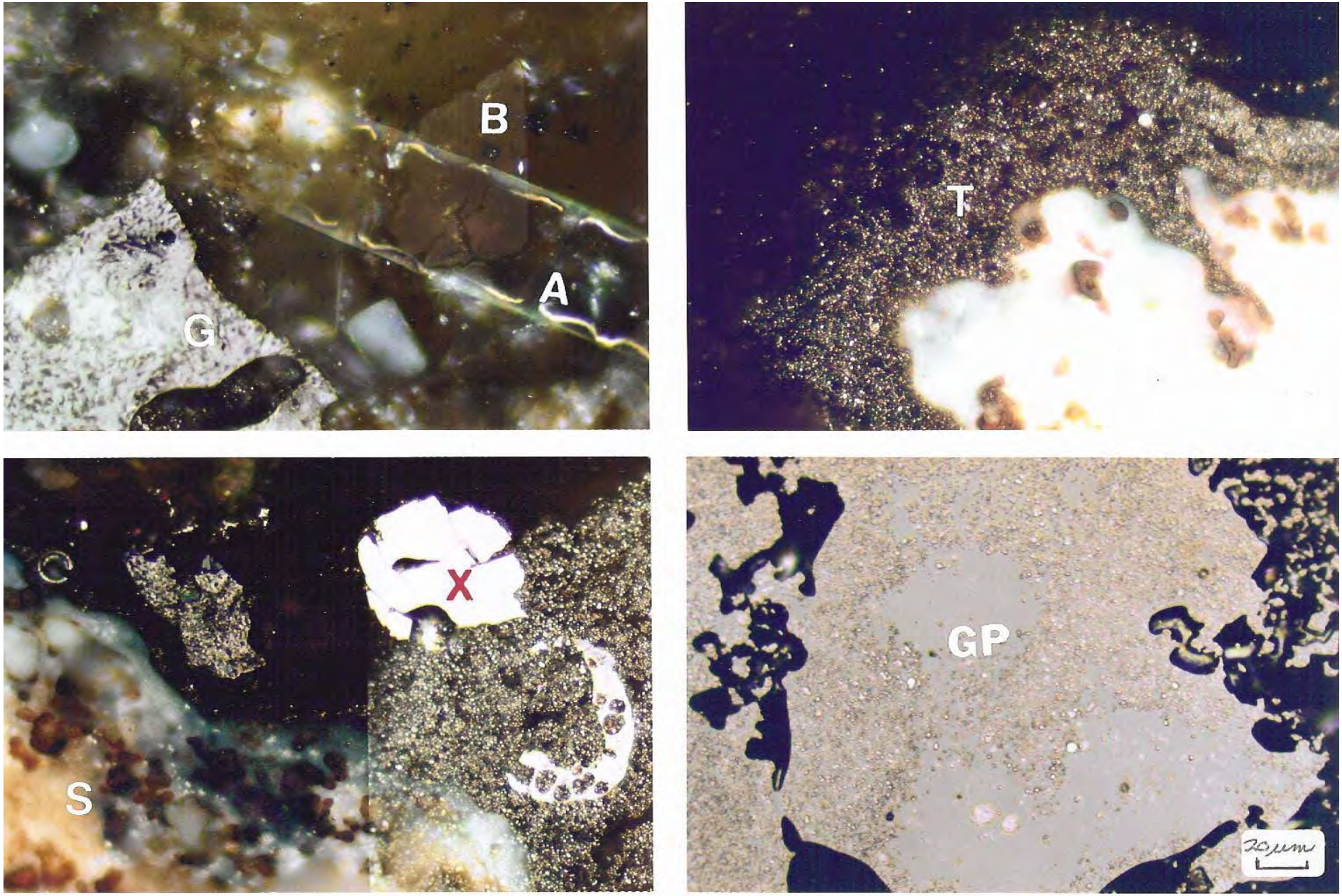

Figure 20: **Photomicrographs of Stanford's Sample Labeled NLU-55 Showing; T=Pitch Coating Slag, G=Green Metallurgical Coke, C=Cenosphere in High QI Pitch, GP=Green Pitch Coke (see QI), S=Slag, A=Diatom, B=Carbonate and X=Metallic. Reflected Light In Oil, X600.**

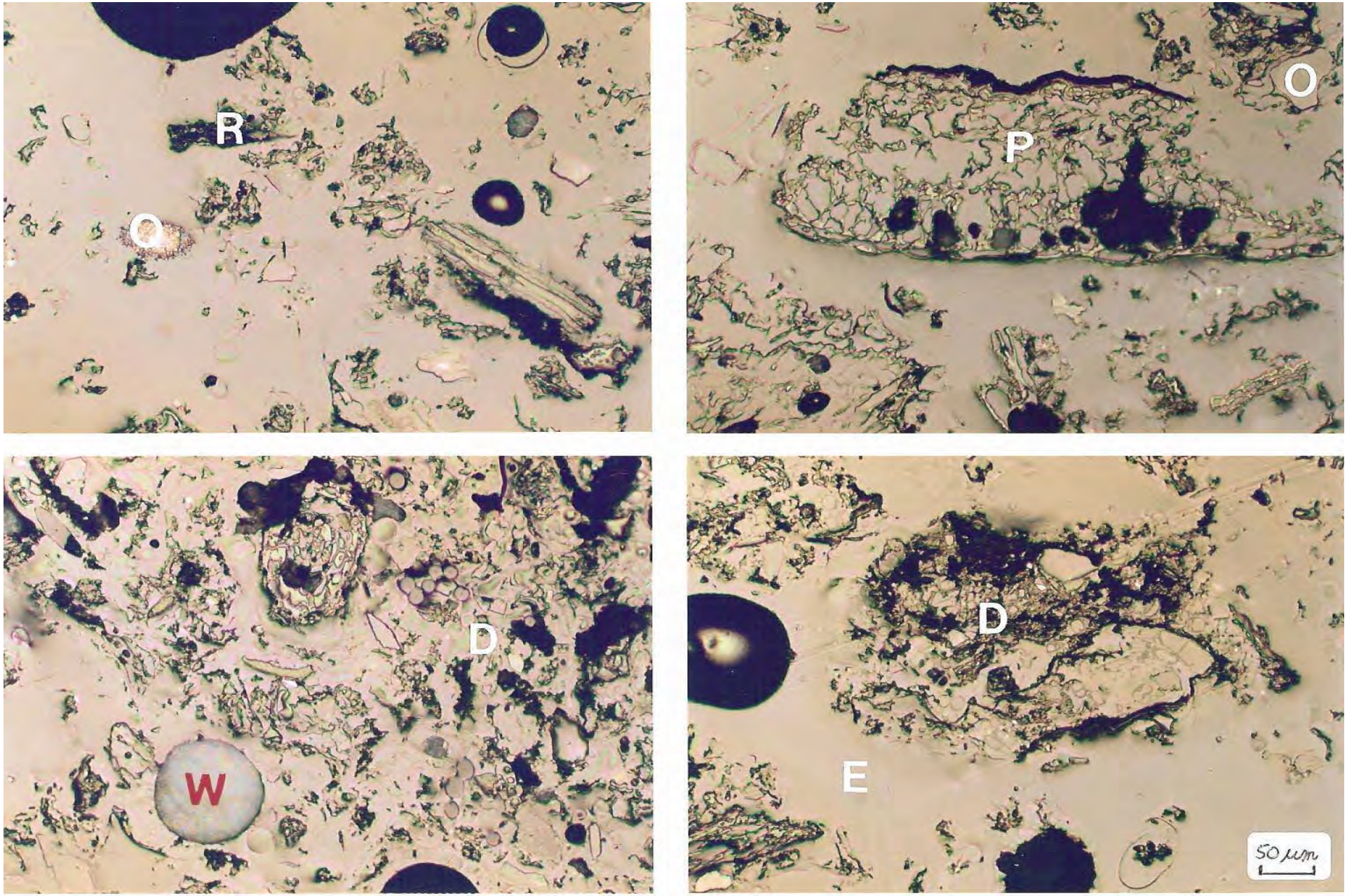

Figure 21: **Photomicrographs of Stanford's Sample Labeled NLU-57 Showing; P=Cellular Organic Plant Material, R=Particulate Plant, D=Diatomaceous Mass, W=White Grainy Mineral, O=Other Mineral, Q=Small Aggregate of QI and E=Epoxy Mounting Media. Reflected Light In Air, X250.**

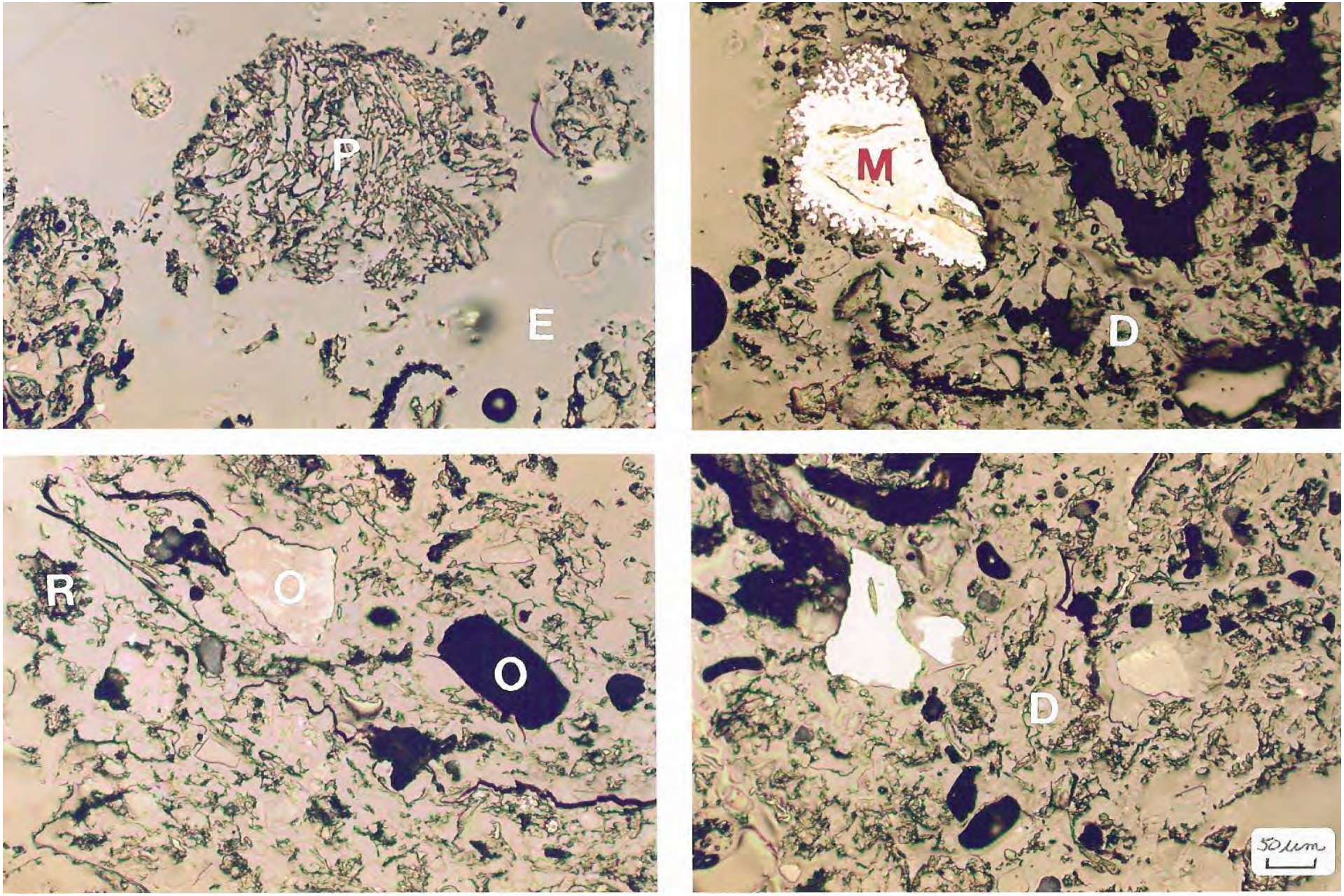

Figure 22: **Photomicrographs of Stanford's Sample Labeled NLU-57 Showing; P=Cellular Organic Plant Tissue, R=Particulate Plant, D=Diatomaceous Mass, M=Metallurgical Coke with Depositional Carbon Coating, O=Other Mineral and E=Epoxy Mounting Media. Reflected Light In Air, X250.**

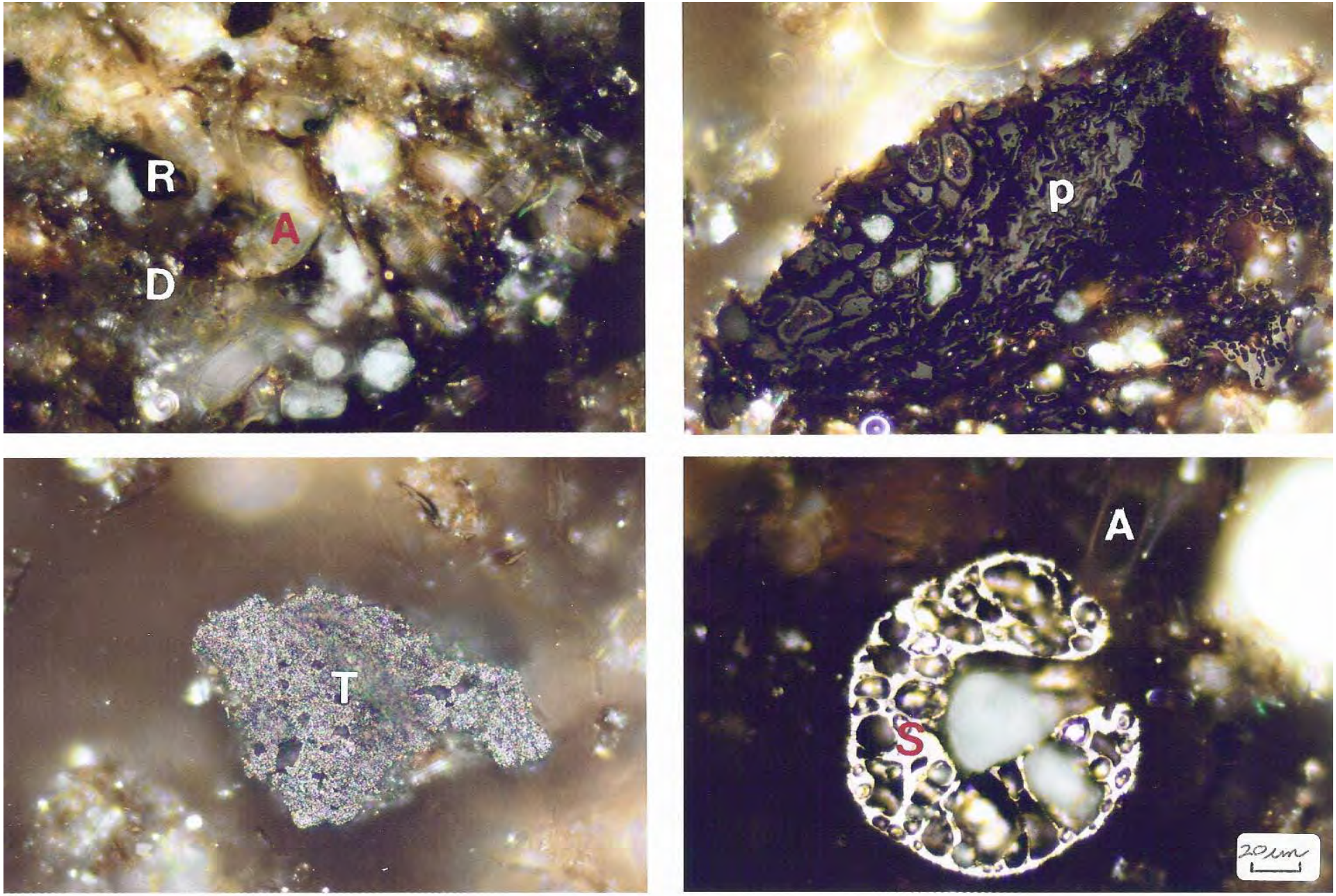

Figure 23: **Photomicrographs of Stanford's Sample Labeled NLU-57 Showing; P=Cellular Organic Plant Tissue, R=Particulate Plant, D=Diatomaceous Mass, A=Diatom, T=Tar-Like to Pitch and S=Cenosphere. Reflected Light In Oil, X600.**

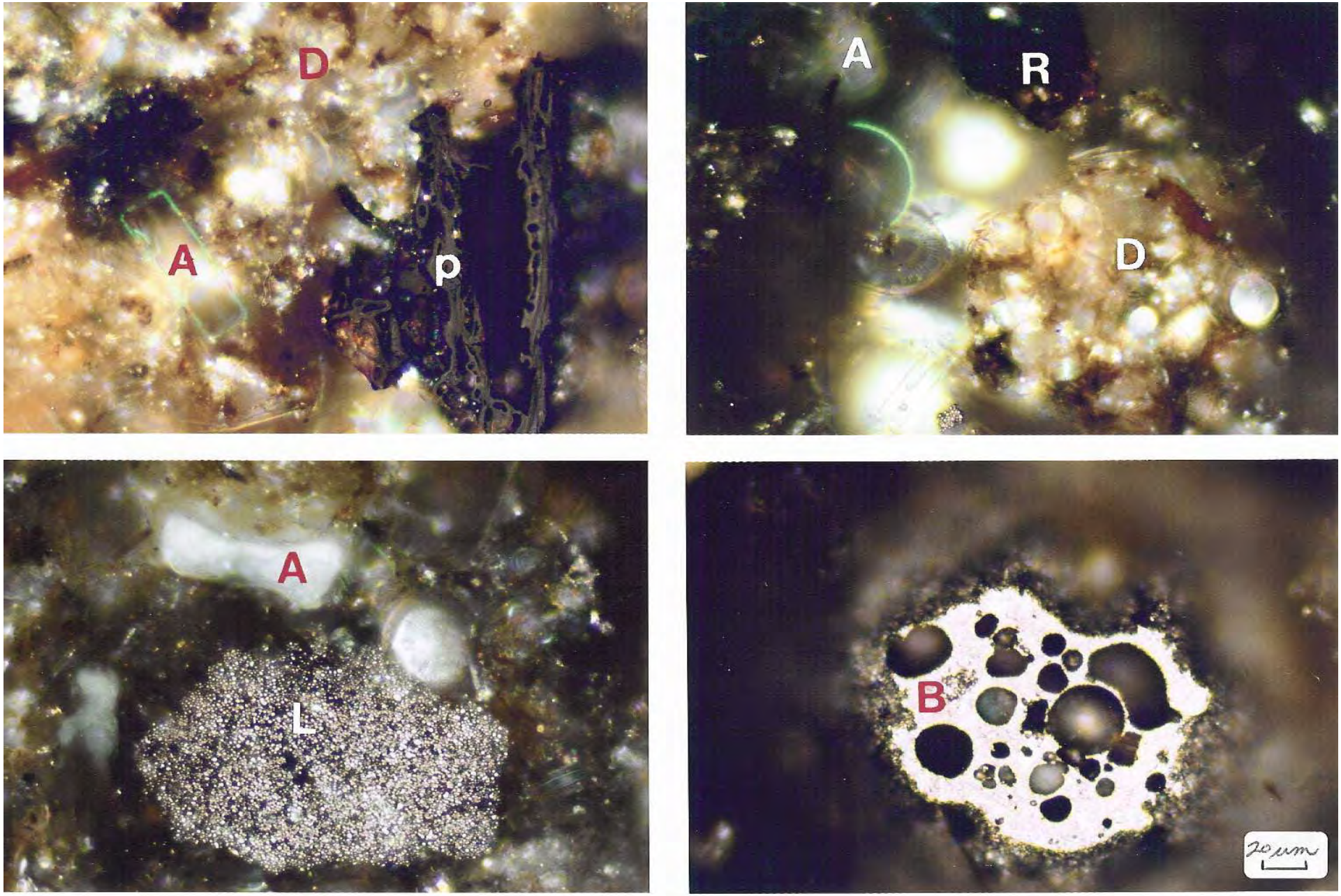

Figure 24: **Photomicrographs of Stanford's Sample Labeled NLU-57 Showing; P=Cellular Organic Plant Tissue, R=Particulate Plant, D=Diatomaceous Mass, A=Diatom, L=Small Loose Aggregate of QI and B=Burnt Coke. Reflected Light In Oil, X600.**

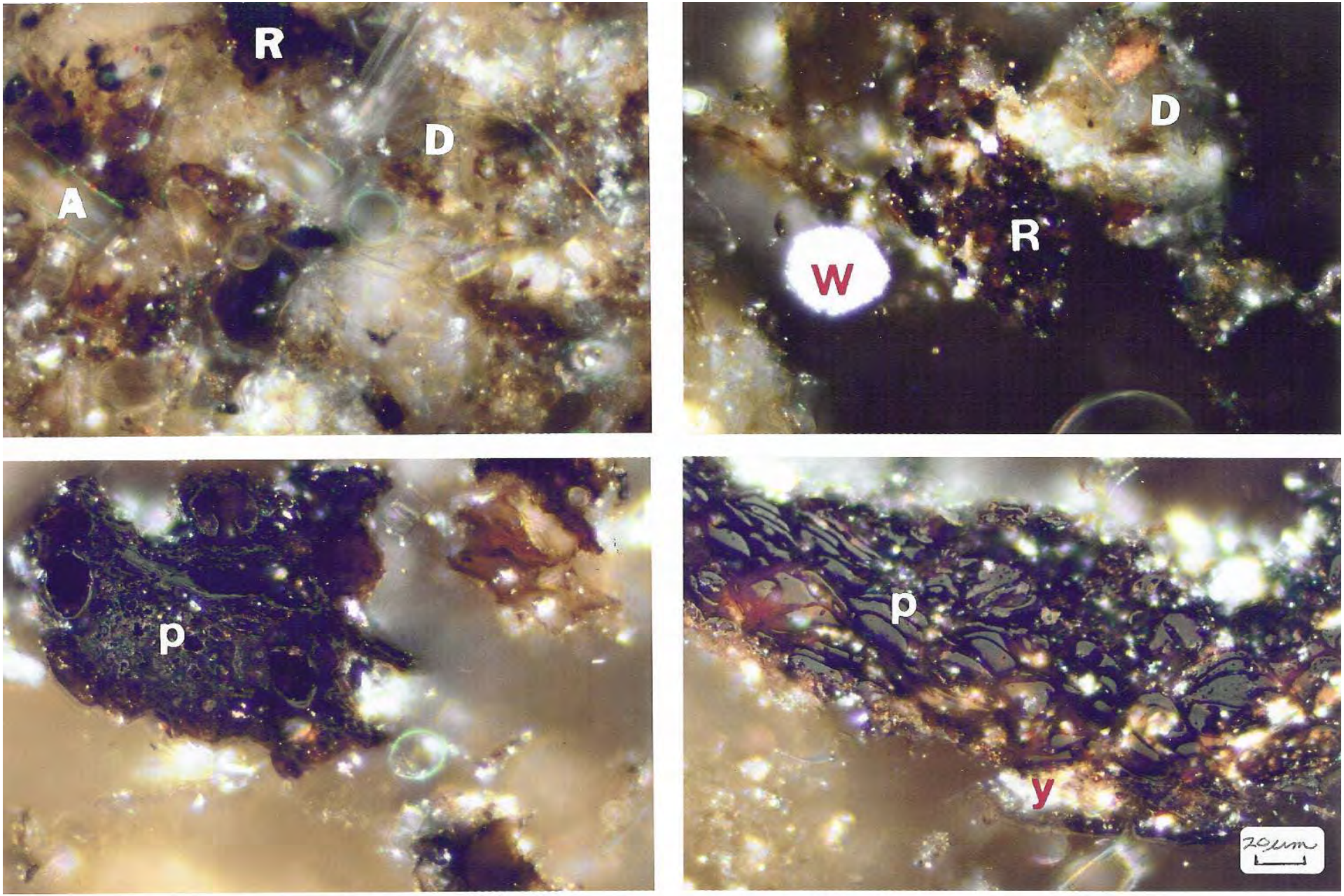

Figure 25: **Photomicrographs of Stanford's Sample Labeled NLU-57 Showing; P=Cellular Organic Plant Tissue (like lignite coal), R=Particulate Plant, D=Diatomaceous Mass, A=Diatom, W=White Grainy Mineral and Y=Pyrite. Reflected Light In Oil, X600.**