September 28, 2009

Amtech Announces Follow-On Multi-System Solar Order

Positive Response at European PV Solar Exhibition in Hamburg, Germany

TEMPE, Ariz.--(BUSINESS WIRE)-- Amtech Systems, Inc. (NASDAQ: ASYS), a global supplier of production and automation systems and related supplies for the manufacture of solar cells, semiconductors, and silicon wafers, today announced that its solar subsidiary, Tempress Systems, Inc., has received a follow-on multi-system order for its diffusion processing equipment from an existing customer in Asia. The order for multiple systems is expected to ship within the next six to nine months.

J.S. Whang, President and Chief Executive Officer of Amtech, commented, "We are pleased to see follow-on orders coming from our growing customer base in Asia, further demonstrating the continued acceptance and demand for our premier brand, Tempress(R) solar products. The EU PVSEC 2009 exhibition in Hamburg, Germany has been tremendously successful for us based on the activity and interest shown in our solar products. We continue to be optimistic about the long-term growth opportunities in the solar market and our ability to capture that growth by offering multiple solar production tools as a technology turnkey product supplier to the diffusion, PSG, and PECVD markets."

About Amtech Systems, Inc.

Amtech Systems, Inc. manufactures capital equipment, including silicon wafer handling automation, thermal processing equipment and related consumables used in fabricating solar cells and semiconductor devices. Semiconductors, or semiconductor chips, are fabricated on silicon wafer substrates, sliced from ingots, and are part of the circuitry, or electronic components, of many products including solar cells, computers, telecommunications devices, automotive products, consumer goods, and industrial automation and control systems. The Company's wafer handling, thermal processing and consumable products currently address the diffusion, oxidation, deposition, PECVD, and PSG removal steps used in the fabrication of solar cells, semiconductors, MEMS and the polishing of newly sliced silicon wafers.

Statements contained in this press release that are not historical facts may be forward looking statements within the meaning of the Private Litigation Reform Act. Such statements may use words such as "proposed," "anticipate," "believe," "estimate," "expect," "intend," "predict," "project" and similar expressions as they relate to Amtech Systems, Inc. or our management. When we make forward-looking statements, we are basing them on our management's beliefs and assumptions, using information currently available to us. Although we believe that the expectations reflected in the forward looking statements are reasonable, these forward-looking statements are subject to risks, uncertainties and assumptions including the risks discussed in our filings with the Securities and Exchange Commission. If one or more of these risks materialize, or if our underlying assumptions prove

to be incorrect, actual results may vary materially from what we projected. Any forward looking statements contained in this press release reflect our current views with respect to future events and are subject to these and other risks, uncertainties and assumptions relating to our operations, results of operations, growth strategy and liquidity. We have no intention, and disclaim any obligation, to update or revise any forward-looking statements, whether as a result of new information, future results or otherwise.

Source: Amtech Systems, Inc.